

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

JANUARY 15, 1954



*Juniperus Virginiana Canaerti*

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***Grande Duchesse	—	X
Charlotte	—	X
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**Katherine T.	—	X
Marshall	—	X
***Lowell Thomas	X	X
*Mary Margaret	—	X
McBride	X	X
**McGredy's Sunset	X	X
***Mirandy	X	X
***Mission Bells	X	X
***Mme. Henri Guillot	X	X
**Mme. Chiang	—	X
Kai-shek	X	X
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****Peace	X	X
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(Cont.)		
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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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**Forms for the February 1 issue will close Friday, January 15.**

**Forms for the February 15 issue will close Friday, January 29.**

**Mail copy to arrive at Chicago by these dates — no later!**

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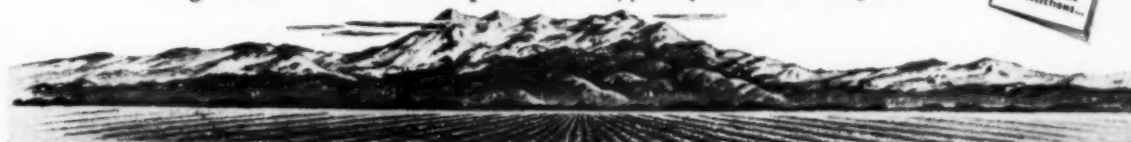
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# AMERICAN NURSERYMAN

F. R. KILNER  
*Editor and Publisher*

KENNETH A. BRENT  
*Managing Editor*

## Editorial

### "PLANT AMERICA"

At most of the midwinter trade meetings, some discussion or action has taken place or will take place in regard to "Plant America," with particular reference to furtherance of the program at the state and local levels. In some states the topic seems an old one, because prompt action there followed the inception of the national planning on the project. In other states, the topic has not yet received the notice by the local trade, nor their action, that it should and will receive.

"Plant America" is a slogan that stands for a continuing program, broad enough in scope to include many avenues of action, from general conservation of our native verdure to the planting of small home grounds. It embraces the landscaping of industrial buildings and of government and civic structures alike. It includes private and public projects that involve, or may in time involve, growing plants, whether highways, parks, civic centers, school grounds, cemeteries, picnic groves, motor courts or other undertakings.

While the nurseryman is engaged in making a livelihood by growing, selling and planting trees and shrubs, he is at the same time improving the appearance of the locality he serves. In this he can unite with other nurserymen and can call for the assistance of other persons who are interested in civic improvement or may be made to feel that interest. Through the "Plant America" program, he can develop this wider leadership in the progress of horticulture, conservation and allied phases of economic and social life.

To carry out the program to its fullest degree requires the participation and action of individual nurserymen. State or even local committees are enough only for guidance, and they depend for the furtherance of their plans on the efforts of their many associates in the industry. If plans are afoot in your state and locality to advance "Plant America," acquaint yourself with the means by which you can lend a hand. If such

plans have not been developed to include your locality, your state meeting provides an opportunity to get things going in earnest.

### CONVENTION PROGRAMS

As one casts an eye over the programs announced for approaching trade association meetings, wide diversity of caliber is evident. Some of the younger, up-and-coming organizations present an array of good things that represent a great deal of preparatory hard work by the officers and program committees. Some of the older organizations have attained a prominence and influence which almost insure speakers of outstanding interest. But some, young and old, betray an inattention to program preparation that cannot fail to be disappointing to those members who attend their conventions.

If only 50 members expend \$20 each to attend a state association meeting, there is invested a total of \$1,000 by them. And if two or three times that number each spend several times that sum, the total they pay for the privilege of attending is of real importance. That fact should stir the officers of such an association to their responsibility in providing a program worthy of the members' investment. If the officers lack the time, opportunity or interest in the arduous work of program preparation, a committee should be appointed, not at the 11th hour, but several months in advance, so that suggestions may be obtained, advice sought from other associations if necessary and speakers of desirable caliber approached in ample time.

Today, many associations annually present convention programs of the first order. Their officers can, and do, lend assistance to those of other groups in advice on speakers and other program features. The national association's office is especially helpful in this regard. So a poor program today is an indication of negligence, rather than lack of material or resources. Members who complain about such a program can best help themselves by electing officers and selecting committees which will do a proper job.

### ADVERTISING AS NEEDED

Common business practice has been to appropriate for advertising a certain percentage of a firm's annual sales volume. The result is that

advertising is heaviest in periods of prosperity and is least employed when sales are hard to obtain, which would seem to be the reverse of proper use of this important business tool.

The latter view is now supported by the United States Chamber of Commerce in the statement, "Past advertising has probably accentuated cyclical fluctuations rather than mitigated them." Urging the adoption of a different policy than heretofore, the chamber's committee on economic policy says, "If advertising and sales promotion programs are to contribute most in stabilizing business activity, they should logically be stepped up, or at least maintained, when sales start to fall off."

In other words, private business could take steps to offset any downturn in the economic cycle, a procedure that would be preferable to government intervention or expenditures for public works.

The problem seems to have been in the financing of current advertising in periods of recession, when there is pressure to reduce expenditures and retain what profits can be made. The solution proposed would be for firms to set aside during a boom period a sales promotion reserve that would be available for spending when business declines.

To enable firms to set aside such advertising reserves, it may be requisite to modify income tax laws, so that taxable deductions may be made even if the advertising fund is not expended in the year in which it is appropriated. Recognition by the government of such reasonable deductions would be as logical as depreciation allowances permitted in special cases at present.

If advertising appropriations could be set aside in prosperous years to be spent as needed in other, as well as the current, years, stronger sales promotion efforts could be carried on when business shows signs of declining and the fluctuation in business cycles would be reduced.

The early postwar years are still in close memory when huge expenditures were made in advertising of all types because profits were large and taxes were high. If such lavishness could be avoided and part of the funds were carried forward for use in years when profits subsided, advertising could be done more effectively for the business firm itself and more advantageously to the economic community as well.





Officers of the Plant Propagators Society assemble at the December meeting of the group. Left to right are Edward H. Scanlon, Olmsted Falls, O., executive secretary; James S. Wells, Dundee, Ill., immediate past president; Dr. L. C. Chadwick, Columbus, O., president, and Richard H. Fillmore, Shenandoah, Ia., vice-president.

## Chadwick Heads Plant Propagators

*By Fred Galle*

The third annual Plant Propagators Society meeting was held at Wade Park Manor hotel at Cleveland, O., December 10 to 12. Members and guests totaled 150, registering from points as distant as Kansas, Texas, New England, Nova Scotia and Florida.

New officers for 1954 are L. C. Chadwick, president; Richard Fillmore, vice-president; William Snyder, editor, and Ed Scanlon, secretary-treasurer.

Roger Pease, West Virginia University, and Frank Turner, Berryhill Nursery Co., Springfield, O., were appointed to the executive committee; William Flemer III, Princeton Nursery, Princeton, N. J., and Hugh Steavenson, Forrest Keeling Nursery, Elsberry, Mo., were appointed to the membership committee.

President James S. Wells opened the meeting Thursday afternoon, December 10. President Wells said that the meeting is open only to members and their guests and that the printed proceedings are available only to members.

Arnold Davis, of the Cleveland Garden Center, gave the welcoming address inviting all to visit the garden center during their stay at Cleveland and extending best wishes for a well-rounded meeting.

Dr. Roger U. Swingle, United States Department of Agriculture, Worthington, O., reported on some facts and theories concerning compatibility in relation to plant propagation. Compatibility and its effects are not always understood, said Dr. Swingle, but they should not be ignored. Environmental factors, condition of the plant and cambium continuity were discussed.

Incompatibility factors may be numerous in hybridizing and seed production, with failures in fertilization and reproduction processes being important factors. Dr. Swingle said several hybridization techniques are being used to eliminate incompatibility.

Incompatibilities in grafting and budding are well-known. Some plants are compatible only within their own varieties, while in other cases widely differing plants may be grafted, such as lilac on privet and citrus on trifoliolate orange.

Bridging of growth often is followed by breaking. Dr. Swingle pointed out that lack of synchronized growth, climates, conditions, infectious diseases and many other factors may account for some failures in budding and grafting.

In closing, Dr. Swingle mentioned that techniques in grafting may often

lead to failure, and this may be incorrectly associated with incompatibilities.

Dick Fillmore was moderator of a series of demonstrations and exhibitions showing techniques and equipment used in plant propagation. Exhibitors were given 10 minutes to give additional information and answer questions about their exhibits.

### Elm Budding Discussed

William Flemer III, Princeton Nurseries, Princeton, N. J., began his portion of the program with a discussion of propagating American elms by budding. Elm seeds should be sown immediately, advised Mr. Flemer, and 2-year-old seedlings should then be lined out into narrow rows to be budded the next season.

The stock plants are cut during the winter after the budding, and the buds are staked the next season.

Honey locust propagation by summer budding was explained by Jack Siebenthaler, Siebenthaler Co., Dayton, O. Seeds are collected in the fall and cleaned immediately in beds. Seedlings are dug at the end of the first season, heeled in during the winter and lined out in the spring for summer budding.

Nicolien, a new budding method developed by Peter Nicolin, a Ger-

man nurseryman, was described by Dick Fillmore. Nicolien budding is the newest improvement in budding, and the members of the society sent a cable of thanks to Mr. Nicolin for his willingness to share it with other propagators. The executive committee will also send him an appropriate award. A detailed report of the Nicolien budding method will appear in a later issue of this magazine.

Success with golden philadelphus from cuttings depends on good stock plants, advised John Bos, John Bos Nursery, Clyde, O. A good stock plant will produce 300 cuttings which are taken in late spring and placed in a sand medium in a closed greenhouse. Rooted cuttings of golden philadelphus require winter protection the first year.

#### Polyethylene Praised

Roger G. Coggeshall, Arnold Arboreum, Jamaica Plain, Mass., discussed a polyethylene case for rooting cuttings. Polyethylene plastic is moisture impermeable and yet permeable to air and, when placed over a frame structure above a propagating bench, makes a desirable propagating case or chamber which is cheap to install and requires little maintenance. Mr. Coggeshall also recommended adding styrafoam to media of sand and peat for rooting rhododendron cuttings.

Burford holly propagation from cuttings was described by John B. Roller, Verhalen Nursery, Scottsville, Tex. Cuttings are taken from young vigorous plants, placed in a lath house, covered with plastic and not watered for approximately three weeks after the initial watering. Mr. Roller said he uses sandy soil for a rooting medium.

H. W. Templeton, Jr., Phytotechnor, Winchester, Tenn., discussed his method of rooting cuttings which includes the principles of the English sun frame along with Mr. Templeton's ingenious use of plastic, time clock, humidistats and home made nozzles, with soil as rooting medium.

#### Time Clocks Find New Uses

A simple and inexpensive time clock for regulating mist in plant propagation procedures was described in detail by Charles Hess, Jr., Cornell University. In the field of horticulture, time clocks are used to extend the length of day by turning lights on at dusk and turning them off again after the desired day length is reached. They are also used for cycle control of mist for plant propagation. The time clock discussed by Mr. Hess was the result of testing three different designs, select-

ing the desirable components of each and combining them into an economical and efficient instrument.

Prof. Roger W. Pease, West Virginia University, discussed the response of rooted cuttings of *Ilex opaca* in a lath house to overhead irrigation, stating that there was a marked increase in growth of plants under overhead irrigation.

The Friday morning program was devoted to juniper propagation, with Dr. William Snyder, Cornell University, describing the fundamentals of juniper propagation as covered in available literature. To propagate

junipers by seeds, Dr. Snyder mentioned several ways to clean the seeds before stratification and planting in the spring.

Conflicting evidence is found in the literature on propagation of junipers by cuttings. Various media are used, with sticking dates from October through February. Light wounding was reported favorable for rooting, but hard-to-root varieties of juniper were not favored by the use of growth substances.

Red cedar is the best stock for grafting, Dr. Snyder reported, and he

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## Brooklyn Botanic Garden Makes Awards



Dr. Benjamin M. Duggar, center, discoverer of aureomycin, receives the Brooklyn Botanic Garden's distinguished service medal from Dr. George S. Avery, Jr., garden director, as another medal winner, Mrs. Dean Clay Osborne, watches.

Brooklyn Botanic Garden distinguished service medals were recently presented to Dr. Benjamin Minge Duggar, Mrs. Dean Clay Osborne and Mr. and Mrs. Walter D. Brownell for their contributions to horticulture.

Dr. Duggar received the award in recognition of his discovery of aureomycin five years after he retired as a botany professor. The awards were presented to all of the recipients by Dr. George S. Avery, Jr., director of the garden.

"As a botanist," Dr. Avery said, "your work in the war against disease outstrips most medical discoveries in its contribution to the well-being of mankind. Our trustees deem it an honor for Brooklyn Botanic Garden to honor you by awarding you its distinguished serv-

ice medal in recognition of your discovery of aureomycin."

Mrs. Dean Clay Osborne was honored for her generosity in donating the Osborne memorial horticultural section of the garden.

The third award went to Mr. and Mrs. Walter D. Brownell, of Little Compton, R. I., rose hybridizers for more than 50 years, who have contributed 56 varieties of roses to the horticultural world. In making the presentation to them, Dr. Avery explained that they had, from the wild rose (*Rosa wichuraiana*) of the Orient, literally picked out the inherited characteristics of sub-zero hardiness and resistance to disease, and through long-term breeding with other desirable roses, given to horticulture a considerable number of significant new forms.



Harold Davidson



Dr. Donald P. Watson

## Hold Michigan Landscape Conference

*By Harold Davidson*

The season's first snow made highway travel slightly hazardous and caused attendance at the annual landscape gardener's conference, sponsored by the Michigan Landscape Conference and the department of horticulture of Michigan State College, to be somewhat smaller than anticipated. The conference was held December 10 and 11 at the Kellogg Center, East Lansing, Mich.

Opening the conference, Harold Davidson—substituting for President John Stark—welcomed the landscape men to the campus. President Stark was hospitalized at the time for observation relative to a circulatory condition.

Mr. Davidson then briefly outlined some of the recent developments on the college campus—completion of the new nursery storage building at the horticulture farm; additions to the evergreen plantation and to the tree and shrub collections on the campus, and completion of a new dormitory.

### **Impetus for Horticulture**

Dr. Donald P. Watson, of the department of horticulture of the college, then addressed the group on the "Impetus for Ornamental Horticulture" and presented an optimistic view of the future of this phase of horticulture. Dr. Watson said, "The impetus for ornamental horticulture at Michigan State College is stimulated by a great need for a channel

of information to the people in the nursery and landscape business in Michigan. Michigan State Nursery Notes has been originated to collect and disburse this information and is available to anyone who requests it.

"This impetus is stimulated by a need for more good students to be made available with practical training in nursery management. It is further stimulated by a great need for educational publicity until every homeowner in this country not only knows a good planting from a poor one but also knows a good plant from a poor one.

"There is great need for research, some of which has already been undertaken, more of which can be instituted during the next few years. In fact, as a result of the status of ornamental horticulture, which was enhanced by the recent census which showed an increase in leisure for the professional and industrial worker, ornamental horticulture probably ranks higher than any other phase of horticulture in its challenge for further development."

The next speaker, Clarence E. Godshalk, of the Morton Arboretum, addressed the group on the need for a larger number of arboreta and in fact, recommended an arboretum for every town. Aesthetic arrangements of plants at these arboreta would provide opportunities for the public to learn about plants and their use.

Mr. Godshalk stated that a small,

well-planned landscape arboretum can do much to stimulate interest in plants and horticulture in general among townspeople, and he presented the following recommendations for starting a small arboretum: 1. Select a park or school grounds that has some maintenance funds available. 2. Try to select a site that has some natural advantage, such as hills, woods, meadows or water, which will add considerable value to the beauty of the plantings. 3. Employ a well-trained landscape architect or horticulturist to plan the development. 4. Select for planting only those plants that will do well within the particular area and be sure that the plants are properly and plainly labeled. 5. Establish a small nursery to test plants before placing them on display for general recommendation. 6. Conduct an educational program to derive maximum use of the arboretum.

The Morton Arboretum supports an extensive educational program by conducting classes in nature study, botany, horticulture and landscaping for groups of various age levels and interests, such as teachers, gardeners, boy and girl scouts, junior foresters and homeowners.

Mr. Godshalk stated that much can be done to encourage support of the arboretum by placing eye-catching plants where the public will see them, thus stimulating a desire to

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## Nurserymen See Good Year Ahead Despite 1953's Drought

An excellent year in 1954 is optimistically foreseen by most nurserymen, despite a serious drought which spread across most of the United States this past summer, setting growth back a full year. Although most nurseries are short of stock in several grades, few are planning price increases.

More probable than price increases, according to Hugh Steavenson, Forrest Keeling Nursery, Elsberry, Mo., will be a slowing of the general accumulation of nursery surpluses as a result of the drought.

The greatest setbacks were suffered by the small nurseries which had inadequate irrigation or no irrigation. Those which depended on limited municipal water supplies were also scarred.

Fritz Henderickx, of Bobbink Nurseries, Inc., East Rutherford, N. J., reports that that nursery was fortunate enough to be able to reach 50 per cent of the stock with irrigation. Stock not irrigated suffered to the extent that the nursery obtained only 40 per cent growth. In cases when plants did not die, they were often made unsalable.

Charles B. Staton, Possum Hollow Nurseries, Philadelphia, reports that many plants are stunted, with an off-color appearance which will take special care to erase. In Pennsylvania, however, rain came in time to save many varieties that would otherwise have been dead by spring.

The situation of stunted growth is the same throughout most of the nation. With the exception of the Pacific coast and the far north, a full year's growth was lost by most stock. The coast, accustomed to irrigating almost all stock, has had less than normal rainfall for the past five years, but, in general, coast nurseries were prepared for the drought. The lack of rainfall did not seem to extend to the far northern states. Minnesota reported little damage to stock.

A look at the nation, section by section, shows this outlook for 1954:

### NEW ENGLAND STATES:

Rainfall far below normal in August and September slowed growth and caused a shortage in salable evergreens, deciduous plants and shade trees. The last group is almost out of the market.

E. D. Robinson, E. D. Robinson Sales Agency, Wallingford, Conn., suggests that the main reason for the shortage in New England is that construction of new houses requires material faster than the industry can produce it.

### MIDDLE ATLANTIC STATES:

Five months of serious drought has damaged field stock and ornamentals. Rain came in November, but by that time it was too late for most nurserymen to make up for time lost in fall planting. Lawns were damaged, and stocks have been depleted in many sizes.

"The drought held our fall business to a slow start," reports E. Sam Hemming, Eastern Shore Nurseries,

Inc., Easton, Md., "but it does not seem to have affected our volume. We do have more unfinished business than usual at this time of the year."

### SOUTH ATLANTIC STATES:

Less drought on the Atlantic coast than in other areas means stock supplies are closer to normal than in some areas. Few losses and almost normal growth have been reported, but dry fall weather slowed up digging. Considerable rainfall was reported in late fall.

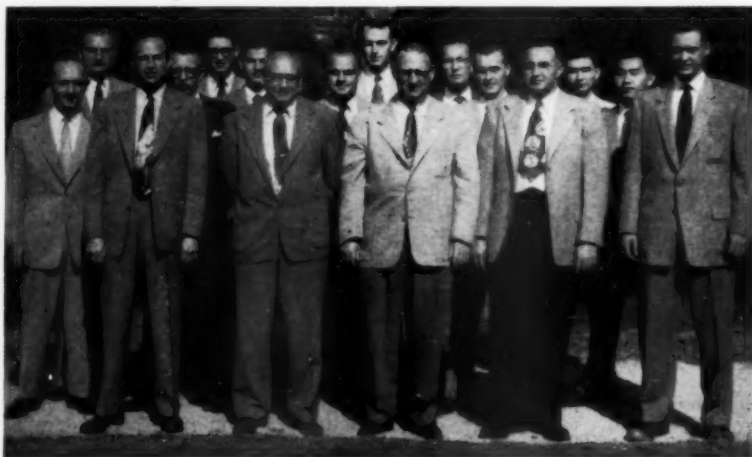
John Wight, of Wight Nurseries, Cairo, Ga., reports a heavy demand for pecans and the usual number of calls for azaleas, camellias and other broad-leaved evergreens.

### NORTH CENTRAL STATES:

Severe drought throughout most of this area held unirrigated stock back about one grade and required that plants which ordinarily would have been dug this spring be held over one additional year. Extreme

[Continued on page 52]

## Horticulture at Ohio State University



Pictured above are the staff and graduate students of the division of floriculture and ornamental horticulture at Ohio State University, Columbus, O.

In the front row, left to right, are Dr. Kennard S. Nelson, Prof. Victor H. Ries, Dr. L. C. Chadwick, Dr. D. C. Kiplinger and Kenneth W. Reisch. In the back row, left to right, are Robert Hanzel, Ray A. Keen, John A. Strate, Paul D. Brinkpeter, Franz A. Eitel, Howard C. Brown, Danna M. Griffin, Henry P. Orr, Paul Alexander, James Caldwell and Chiko Haramaki. Not present when the picture was taken were R. Howard Hanchey and Richard S. Lindstrom, engaged in off-campus re-

search work, and Harding Newsome.

Dr. L. C. Chadwick is head of the division of floriculture and ornamental horticulture. He spends three fourths of his time on the teaching staff of the Ohio State University and one-fourth time on the staff of the Ohio agricultural experiment station. He is secretary of the National Shade Tree Conference, is the president of the Plant Propagators' Society, is active in the Ohio Nurserymen's Association and the Columbus Landscape Association and is a member of the street tree commission and the rose garden commission of the city of Columbus.

Prof. Victor H. Ries devotes full

[Continued on page 87]



# Texas Nursery Uses Flavor (And Skills) of Old Mexico To Boost Sales

By *Valeeta Bilhuber*



Don Pedro, the unique birdbath pictured above, sits at the entrance to Tropical Nurseries. The birdbath is made of concrete, comes in two parts (sombrero and base) and weighs 150 pounds. The figure is placed next to a large maguery plant, the plant from which Mexicans manufacture rope and their three national drinks.

Don Pedro is well-known to residents of Corpus Christi, Tex. For over 20 years he has sat napping in the sun beside a large maguery plant near the bamboo gate at the entrance to Tropical Nurseries. Birds flit about his head and occasionally perch on his sombrero—for Don Pedro is a concrete birdbath, and the brim of his sombrero is filled with water. But Don Pedro is more

than an ornament. Along with the maguery plant, he has become almost a trade-mark of the firm, and his picture appears on the side of the nursery's trucks.

The sleeping Mexican and the maguery plant may well be considered symbolic of the Mexican influence which has brought distinction to Tropical Nurseries. By skillfully adapting Mexican (and Aztec)

planting and construction practices to American landscaping needs, the firm has developed a distinguished style and been largely responsible for the growing popularity of Mexican plants and building materials in the Corpus Christi area. In this part of the country, which was actually a part of Mexico at one time, the south of the border influence is a natural and salubrious one.

Tropical Nurseries are located at 2710 Leopard street (Highway 9), a short drive from Corpus Christi's main shopping center. It was founded nearly 25 years ago by R. A. Seawell, and N. A. Austin joined him as a partner a few years later. Together they have built a nursery which successfully combines cash-and-carry retail sale of nursery stock with a large contract landscaping business encompassing industrial, estate and small home landscape designing and planting. Propagation of scarce plants is also carried on by the firm.

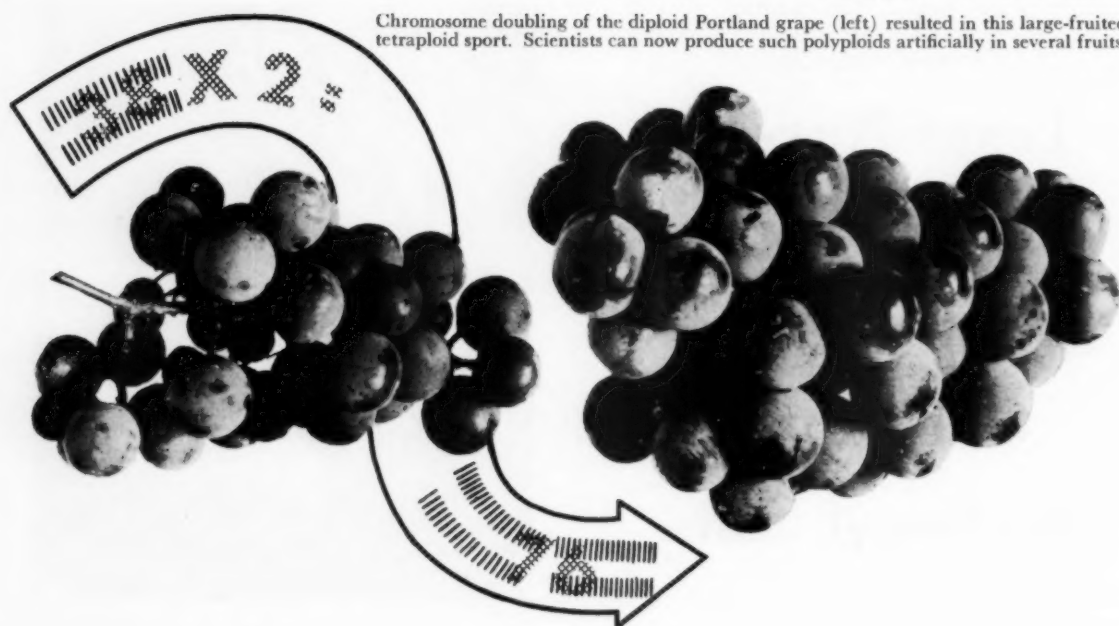
## Spanish Moss Aids Shading

Entering the nursery, one comes first into a large shaded area. Spanish moss hangs down from the camouflage cloth that is used for shading and swings gently in the breeze, and many varieties of hibiscus (the nursery's specialty), crotons, poinsettias and other tropical and subtropical plants in containers are ar-

[Continued on page 79]



The rustic office of Tropical Nurseries, with its palm-thatched roof, is frequently the subject of appreciative comment. Aztec brick forms a retaining wall for a cactus display on one side of the doorway and canned plants comprise a lush display of foliage at the other side.



## Colchicine: Drug Produces Plant Changes Fast That Could Take Countless Ages in Nature

Scientists are using a drug to induce genetic changes in plants—changes that nature might never bring about, even over countless ages. This technique, in addition to solving certain mysteries of the plant world, is helping to make new crops and improve old ones.

Known as colchicine, the drug has been used by researchers for treating field crops, flowers, vegetables and fruits during recent years.

Colchicine is not a magic elixir, nor is it a fertilizer or a growth regulator. Rather, it goes to the heart of inheritance—tiny cells of which plants are made. In the nucleus of each cell are bodies called chromosomes. These carry genetic factors and every species has a constant chromosome number.

### Most Plants Are Diploids

Most plants are diploids—that is, they have two identical sets of chromosomes in each cell. The raspberry, for example, has two sets of seven (a total of 14 chromosomes). Polyploids are plants with more than two sets of chromosomes. Triploids have three sets, tetraploids four sets and so on. Our cultivated strawberries are octaploids (eight sets) and blackberries range from diploid to 12-ploid.

Many polyploids have evolved in nature and are grown commercially

today. Through thousands upon thousands of years, sudden variations occasionally appear in plants. Although most of these mutations, or sports, have been lost, some have survived and developed through the process of natural selection.

Numerous hybridizations between species have occurred, as has rare spontaneous doubling of chromosomes. (Perhaps the best-known sports are isolated branches bearing giant fruits, found in apples, grapes and other plants.) Studies of polyploidy have shown how these double chromosome sports occur—sometimes on just one side of the branch—and why many cannot be used in breeding.

But it is no longer necessary to wait an eon for an accident of nature to break through the stone walls that scientists have reached in some phases of breeding. Polyploidy, artificially induced with colchicine, may provide in one season just the plant material a breeder needs. The prospects go far beyond production of giant fruit.

Dr. Haig Dermen's work with grapes, at the plant industry station, Beltsville, Md., illustrates the point. The southeastern muscadine grape is a diploid with 40 chromosomes. It does not cross readily with the northern bunch grape, a 38-chromosome diploid, and the few hybrids are

sterile. Yet, bunch grapes need the vigor and disease resistance of the muscadines. They, in turn, need the large cluster form of the bunch grapes. Experience with other plants suggested the possibility of making a fertile hybrid by doubling the chromosomes of both these diploid grapes before making the cross.

### Tests Made in 1952

In 1952, Dr. Dermen treated plants of 10 northern selections and varieties (see illustrations). Tetraploids—the first that man has made in grapes—developed among all 10. Several southern-type plants were polyploidized this past season; so the stage is set for new breeding work. Furthermore, there is a chance that some of the tetraploids themselves—with their larger fruit—will become good commercial varieties.

Fertility is a problem in breeding many other plants. Owing to complexities in the reproductive process, a difference in species or a variation in chromosome number is likely to cause trouble. Crossing may be difficult, the offspring largely sterile. In some cases, however, sterile hybrids have been made fertile by chromosome doubling. In other cases, polyploidizing parents (as planned for the grapes) has given good results.

This suggests numerous possibili-

ties: Breeders can make another try with stock that they previously found unusable. Desirable features of otherwise useless plants may be brought into many of our crops. Even completely new fruits may be created. A great deal of breeding material—wild and cultivated—is available, and plant explorers are searching for new stocks.

Much breeding effort has been devoted to producing larger fruit. Selections with good qualities sometimes have to be discarded because

their fruit is too small. Polyploidy might solve size at once, allowing scientists to concentrate on such matters as disease resistance, hardiness, plant type, flavor and nutritional value.

Dr. Dermen emphasizes, however, that the changes cannot always be predicted. Polyploidizing often results in thicker branches, broader and thicker leaves, larger flowers and fruit. But some plants show little or no effect and may even be damaged rather than improved.

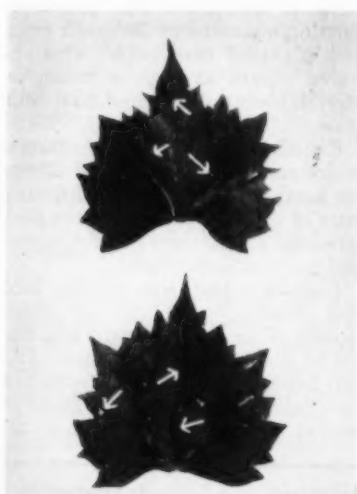
Interpreting the results demands familiarity with a microscope and the experimental plant—plus a great deal more: Intimate knowledge of plant structure, genetics and cytology, the study of the cell itself.

So this job takes experts, and it takes time. Grapes have proved to be excellent guinea-pig plants because they develop quickly. Several years, however, are needed to recognize polyploidy in the slow-growing apple, peach and pear. Even so, science is well ahead of nature.

## HOW A POLYPLOID GRAPE IS PRODUCED



1. Lateral buds (arrows) are treated with a drop of colchicine. Shoot tip and other buds (x's) are taken out to concentrate growth in treated buds.



2. Treatment may slow shoot development, but abnormal leaves on emerging shoots are definite signs that colchicine has produced polyploid tissues.



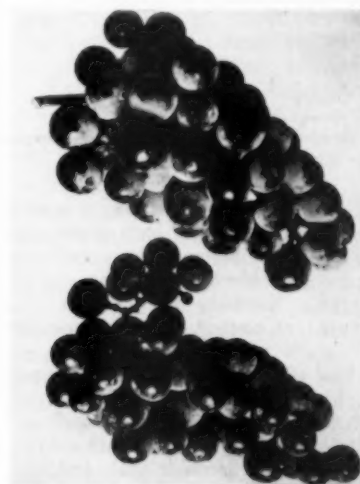
3. These leaves, farther from the branch base, indicate that the tip's central cells were affected. Note dark portion, broadness and U-shape at bottom.



4. Tags mark location of promising branches. Cutting back to abnormal leaves may induce polyploid branches to develop from the affected areas.



5. Branches with the abnormal leaves later develop bigger flower clusters (right) than those on a normal branch. Pollen grains are found to be larger.



6. Polyploid fruit (top) and normal cluster from the same plant. The first man-made polyploid grapes were produced in 1953 using colchicine.



# Grasses for California

Three general types of turf—cool season grasses, warm season grasses and mixtures of the two—can be grown in southern California, studies conducted by Zaki Mahdi, a graduate student in ornamental horticulture at the University of California, working under the direction of Prof. Vernon T. Stoutemyer, have disclosed.

Cool season grasses, while possessing ideal color, cannot resist invasions of Bermuda grass and crab grass during the summer (except in the shade); on the other hand, warm season grasses become dormant in the winter and weed invasion easily takes place. A mixture of the two not only resists weeds and undesirable grasses but also possesses good, year-round color.

Merion bluegrass, U-3 Bermuda grass and the highland strain of colonial bent grass were found to be unquestionably superior in quality to other strains of these grasses and were somewhat superior in drought resistance and general vigor.

## Experiments on Weed Resistance

The experiments conducted to determine maximum resistance to weed invasion consisted of top dressing experimental plots with compost heavily infested with weed seeds.

The plots were mowed when necessary to maintain the height of cut at approximately three fourths of an inch, and organic sewage sludge fertilizer, containing 6 per cent of nitrogen and 2 per cent of phosphorus, to furnish nitrogen at the rate of five pounds to each 1,000 square feet each year, was applied on the sod surface every two months. No protective measures were taken against insects, diseases or weeds.

In December, 1952, the plots were rated on the basis of quality. The two outstanding plots of single grasses were Merion bluegrass and highland bent grass. The best combination was common Bermuda grass with highland bent grass. This received almost as high a rating as Merion bluegrass and highland bent grass.

Experiments were also conducted to determine the influence of different heights of cutting and different rates of nitrogen feeding on the performance of mixtures of cool season and warm season grasses.

Each test plot was divided into two sections, one cut at three fourths of an inch in height and one cut at three eighths of an inch. The two different cutting heights did not materially affect the relationships of any of the grasses, as judged, al-

though shorter mowing tended to increase the number of plants of the U-3 Bermuda grass to the acre.

The height of cut did greatly influence the weed populations, with the number of weeds greater under the lower than under the higher cut.

The weed differences were greater between the plots receiving no nitrogen and those receiving five pounds a year than between those receiving five and 10 pounds a year. On plots which received 10 pounds of nitrogen a year, the differences in weed populations with high and low mowing were not great.

## Observations on Bermuda Grass

Observations showed that at the various cutting heights tried in the investigations, U-3 Bermuda grass is highly competitive in combination with highland bent grass, Kentucky bluegrass and Merion bluegrass. The U-3 Bermuda grass can overbalance these grasses if the cool season partner is not favored. However, this does not hold true when the Bermuda grass is combined with a highly aggressive and disease-resistant bent grass such as the congressional or old orchard strains and cut at one-fourth inch or less. The experiments indicated that this combination may be a promising one for southern California.

Although Kentucky and Merion bluegrasses did not prove as satisfactory in the experiments as vigorous, disease-resistant colonial or creeping bent for balanced combinations of warm season and cool season grass, preliminary experiments with annual bluegrass (fall seeded in turf of U-3 Bermuda grass and kept at fairway cutting height) have been promising.

## HERBARIUM ADDS PLANTS

Over 2,000 specimens were added to the herbarium at the University of Florida during 1953, increasing the collection of plants to 124,144 specimens. The collection is one of the most complete in the south. Most of the specimens added to the herbarium during the past year were seed plants.

The herbarium identified more than 2,000 specimens of plants for scientists and others during 1953 and also demonstrated to numerous students the identification of plants by the use of specimens.

Besides thousands of specimens of Florida plants, specimens from several other states and from Latin American countries are included in the herbarium's collection.

Comparison of Several Bentgrasses, Bluegrasses, and Bermuda Grasses, Alone and in Combinations.

Quality rating	Composition of turf	Number of plants per inch plug			Per cent of cool season grass in combinations
		Bermuda grass	Cool season grass (bluegrass or bentgrass)	Total	
1	Highland bent grass		40.55	40.55	..
2	Merion bluegrass		21.55	21.55	..
3	Common Bermuda grass and Highland bent grass	9.56	23.77	33.33	71
4	U-3 Bermuda grass and Merion bluegrass	19.67	13.88	33.55	41
5	Kentucky bluegrass		19.44	19.44	..
6	Common Bermuda grass and Merion bluegrass	17.55	7.33	24.88	29
7	Common Bermuda grass and Kentucky bluegrass	19.78	7.88	27.66	28
8	U-3 Bermuda grass and Highland bentgrass	25.11	10.77	35.88	30
9	U-3 Bermuda grass and Kentucky bluegrass	26.33	7.55	33.88	22
Mean differences necessary for significance at 5% probability			3.62	9.38	



# Tips for Better Landscapes

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

## WESTERN IDEAS COME EAST

California ideas are often brought east and incorporated into eastern landscape plantings and architecture. With the east and west coasts less than a day's traveling time apart. Nothing should prevent an exchange of landscaping ideas. After all, both the Pacific and the Atlantic coasts are part of America.

Typical of some far western landscaping is the use of beds built across the fronts of homes. This is somewhat frequent in front of eastern homes, too.

Just what is the purpose of building a brick planting bed across the front of the home, as shown in illustration A? If you examine the view of the house, you will notice that the wing at the end has a brick facing. The brick walled bed is used as an attractive connective between the two wings. Without it, the home would appear to be divided. This duplication of materials creates a unified appearance, particularly after the planting is completed. It is good to repeat building materials in landscaping just as it is good to repeat shrubs or trees in the planting plan. The end product is gratifying to those who see it regularly since it presents a unified picture rather than one of split interests.

Let us check the other effects created. The bricked beds are brought forward at the entrance to empha-

size the doorway and provide a more distinct invitation to those who come to visit. (Visualize this same area with the brick walls in a straight line.) It was also necessary to do this because the distant wing is projected forward from the major part of the house.

Some observers wonder why a planting area or grass strip does not separate the walk from the walled bed. This can be done, but it is not practical. Not only would plants or grass be difficult to grow but would also be exasperating to maintain. The owner or the person who maintained the home would soon fill in the area with brick, and I certainly would not blame him. The effect shown in the illustration is one of simplicity.

## Bricks Feather Into Lawn

The walk is not completed with a straight outer edge, nor is it all the same width. Bricks feather into the lawn area to create informality since the surroundings encourage this effect. Imagine how much less interesting it would look if a brick walk of exactly the same width carried you to the doorway and then cut you directly to the doorway! The picture shows that the brick extends into the lawn area around the entrance. This is not only desirable to give a more gracious invitation to enter, but it is also practical—practical from the viewpoint that persons



Illustration B (See Text).

have a tendency to stand near entrances and talk.

A flagstone walk would be out of place because it would be out of scale. Brick surfaces are in keeping with other materials used.

The tree at the left side of illustration A gives depth to the house. Without it, the house and its planting would not have that much-discussed third dimension, depth. This is important to all landscape developments. Provide it whenever and wherever you can.

Directly behind the trunk of the tree is an espaliered American holly (*Ilex opaca*). It is trained so that it leans toward the entrance. This directs attention toward the doorway, and the plant seems less like an individual specimen.

Groundcovers are indispensable to most foundation plantings. In this case you are eased along the walk because of the myrtle or periwinkle leading from the tree (flowering dogwood) to the bricked bed. Groundcovers not only direct traffic but they also have the quality of tying areas or interests together.

An espalier is trained over the wooden surface on the center section of the house. This must be the type of plant that can be removed when the house is in need of painting. The espalier must also be trained on wire supports so that it can be removed from the house. The weeping forsythia (*Forsythia suspensa*) is used on this job, but other materials could also be used. Other suitable plants include tamarix (either *Tamarix gallica* or *odessana*), highbush blueberry (*Vaccinium corymbosum*), bellflower tree (*Enkianthus campan-*

[Continued on page 62]



Illustration A (See Text).



# TREE MAINTENANCE

By Noel Wysong

## TREE DIAGNOSIS

If a person goes to his family doctor and tells him he is "not feeling so well lately," what does the doctor do? Does he eye the patient speculatively for a few minutes, rear back in his chair, tell him what is wrong and prescribe treatment? Not by a jugful!

First the doctor will question the patient until he learns everything possible about the ailment. Then he is quite likely to conduct a methodical physical examination that eliminates all need for guesswork on his part as to the source of the trouble. Finally, when he knows exactly whether it is the heart, the liver or only the imagination that is acting up, he will prescribe treatment. And 99 times out of 100, if his advice is followed, within a few days the patient will be feeling fit as a fiddle.

These same principles apply in treating an ailing tree. It is certain that the proper remedial treatment for a tree in failing health cannot be prescribed unless the source of its trouble is known—and that cannot be known without giving the tree a thorough and intelligent examination.

Certainly, there are some tree troubles that are as obvious as a broken arm, but in general the examination should cover not only every portion of the tree from its finest rootlets to the topmost leaf, but should also include the soil from which its roots draw nourishment and the ingredients of the air currents that sway its branches.

The examination should be conducted in an orderly and methodical manner. For most arborists, myself included, being methodical is difficult. Frequent practice may establish a habit so that procedure becomes a matter of routine, or the arborist may devise and write out certain rules of procedure to which he can refer when making an examination of an ailing tree. I have followed the latter course, for I find it easier to refer occasionally to a typed page, in making a diagnosis, than to attempt to remember all the points that should be covered.

In the use of the outline of diagnostic procedure given below, there are several points to remember. (1) No outline is infallible or all-inclusive. In all probability, personal experience can add to this outline. (2) This outline is intended for use only as a guide in making diagnoses; it attempts to point out the areas that should be inspected for possible sources of trouble without attempting to pinpoint the specific disease, insect or condition that may be

causing the trouble. (3) No control measures are given; recommended remedial measures for practically all tree ailments can be found in many publications. (4) No arborist can hope to learn all of the 600,000 or more kinds of insects and the 30,000 diseases that have been classified and identified. Entomologists and pathologists are always glad to help identify any strange tree pest.

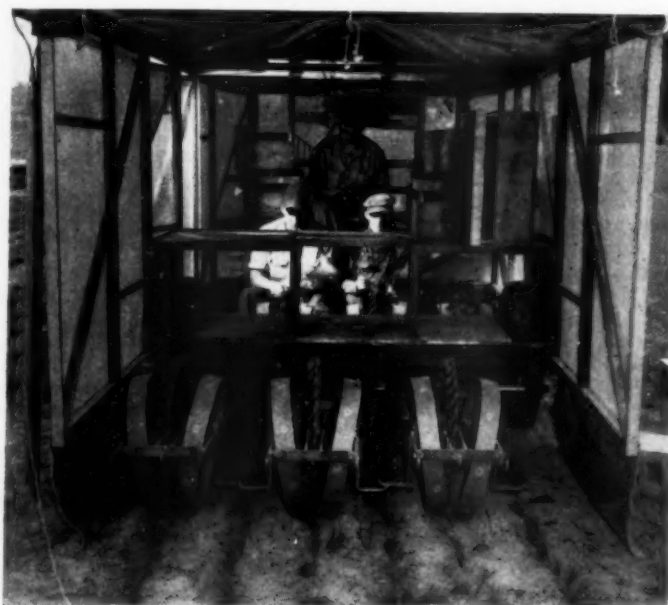
## OUTLINE OF PROCEDURE

### GENERAL INSPECTION

- I. Determine genera, species, size and probable age of the tree.
- II. Case history of the tree (question the owner or ascertain by other means)
  - A. Date symptoms of ill-health first observed
  - B. Treatments previously given tree
  - C. Use of herbicidal materials in vicinity of tree
  - D. Grade changes

[Continued on page 92]

## Ohio Nursery Uses 6-Row Transplanter



Among the multiple-row transplanters now in use in American nurseries is a 6-row machine which has been employed with considerable success since 1949 at the Marietta, O., nursery of the Ohio division of forestry. The machine was developed at the nursery.

The transplanting units, made by the Holland Transplanting Co., are suspended by drawbars located within the transplanting machine frame. The unit is pulled by a model E Clectrac tractor with 68 inches from tread center to tread center. This space allows straddling of the seed-

beds for lifting and of the transplanting beds for transplanting. A Chevrolet truck transmission has been installed between the tractor transmission and the motor and, by operating this secondary transmission in creeper gear and the tractor transmission in low gear, a forward speed of 10 feet per minute can be obtained at idle throttle. Average capacity of the machine has been found to be 100,000 trees daily.

Detailed plans of the unit are available for a nominal charge from the Ohio division of forestry, 1500 Dublin road, Columbus 12, O.



# CHARLIE CHESTNUT

## THE CASE OF THE DELAYED PAYMENT



"Emil," I says, "A few of the members are after me to tell some more of your experiences in the nursery business. They want to know about some of your special deals," I says.

It was a blustery day in January when we was sorting over some old papers piled up a foot deep on Emils desk. The old boy was in a reminiscent mood and glad to be sitting by the old stove with nothing pushing him.

"Well, lets see Chas.," he says. "Did I ever tell about the time I traded the camera with old man Heritage?"

"You told that one already," I says, "thats out, think of something else."

He was stroking his 3-day-old beard and gazing out the window at the snow piling up outside. Then he filled his corncob pipe and smoked silently for quite a spell. Emil was thinking. Something might come out of it and again it might not; so I waited.

Finally he says, "Dont suppose you remember Doc Harts brother Joe. Nobody called him Joe, he always went by the name of Hungry Hart," Emil started.

"Didnt he live in a shack back of the depot, Emil?" I says. "Used to go out among the farmers buying calves."

"Yup, thats him, only in his younger days that Im thinking of he was always picking up a job helping out on police work. If they needed an extra man for special occasions, they always called on Hungry Hart. Hungry loved to wear a police star, pinned on the inside of his coat. But Im getting ahead of my story, just wanted to see if you remembered Hungry, hes been dead 20 years or more."

Emil got up and threw a little coal in the stove, filled his pipe and got his feet up on the desk. I could see he had something coming up out of the dim depths of his memory.

Emil started again, "In them days I was long on Irish juniper. That come about on a trade with John Bushbottom, its a long story Ill have to tell you some other time, but anyway, I was pushing Irish Junipers wherever I could. Among the cus-

tomers that spring was a man that ran the creamery on the Lake Park road, man by the name of Weaver. I delivered him six that spring and he planted a row along his driveway.

"Got that all down, Chas.?" Emil says as I was making my notes.

"Aint much so far," I says, "then what happened, Emil?"

"Along in June, he drove his horse and buggy into the nursery one evening. He had fire in his eye. I thought of course all the trees died, they didnt have no roots at all. But that wasnt it at all.

"Somebody stole all my junipers, Emil," he says, "every single one is gone. Must of been dug up Decoration day when we was all over to my wifes sisters at Suttons Corners. I want you to locate them trees and

Ill make it hot for whoever dug them out."

"Pretty hard to find, Weaver," I says, "one looks about like the other, I aint got time to spend on it myself, why dont you get the police?" I says.

"They wouldnt ever get no place, they wouldnt have no idea how to go about it. Aint you got a man to send out, Ill pay for his time," Weaver says."

"What was you getting for the stock in them days, Emil?" I says.

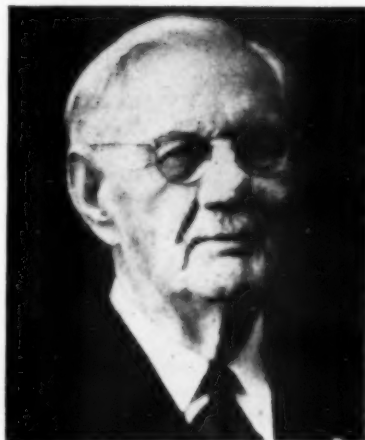
"That batch I sold for \$5 each, they was 6 to 7-footers.

"Well it come to me that Hungry Hart was just the man to put on it, so I told Weaver I would look up a man I had in mind and bring him over the next day.

[Continued on page 68]

## Still Active After 77 Years in Industry

The history of Walter C. Black, 86, of Hightstown, N. J., provides an inspiring record of achievement and service to those acquainted with this well-known eastern nurseryman. Having started in the nursery busi-



Walter C. Black

In addition to his career as nurseryman, he has enjoyed an extraordinary period of service with the school board of his community. Paying tribute to this service, a new elementary school has recently been named after him, an honor climaxing 60 years as a member and chairman of the board.

Mrs. Black is likewise still active and, at 84, keeps house for her husband in the same home they established at the time of their marriage almost 63 years ago. The Blacks have three children, seven grandchildren and 14 great-grandchildren. Except for Joseph Locke, none of the children has entered the nursery field.

The Village Nurseries were founded by Charles Black, an uncle of Walter Black, in 1852. Charles' brother Joseph (Walter's father), joined the firm in 1876, when the firm became Charles Black & Bro. The partners added additional land to the nursery's holdings and the business thrived. In 1888 Charles Black became ill and his interest in the firm was purchased by Joseph and his son, Walter, and the name of the firm became Jos. H. Black & Son. Another brother, Elias, joined the firm a few years later, resulting in still another name, Jos. H. Black,

[Continued on page 93]

ness at the age of nine, he has spent three fourths of a century in the industry and even now acts as bookkeeper, typist and general business manager of the Village Nurseries, of which he is a partner with his grandson, Joseph Black Locke.



# FOREST NURSERY CO., Inc.

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We are pleased to offer the following stock for winter or spring delivery. Our regular Spring Wholesale Price List will be ready for mailing shortly.

ALL ITEMS LISTED ARE NURSERY-GROWN. COLLECTED STOCK QUOTED ONLY ON REQUEST.

## HARDY DECIDUOUS FLOWERING SHRUBS

### ALMOND, PRUNUS GLANDULOSA

(Double, Pink-flowering Almond).

	Per 10	Per 100	Per 1000
12 to 18 ins., 2-yr., l.o.	\$ 2.00	\$15.00	\$125.00
12 to 18 ins., T., well-br.	2.50	20.00	180.00
18 to 24 ins., T., well-br.	3.50	27.50	250.00

### BENZONIN AESTIVALE (Spicebush).

18 to 24 ins., T., well-br.	2.50	17.50	
2 to 3 ft., T., well-br.	3.00	25.00	
3 to 4 ft., T., well-br.	4.00	35.00	

### BERBERIS THUNBERGI ATROPURPUREA

(Red-leaved Barberry).

6 to 12 ins., 2-yr., S.	1.50	10.00	80.00
12 to 15 ins., 2-yr., S.	1.75	12.50	100.00
15 to 18 ins., 2-yr., S.	2.00	15.00	120.00

### CALYCANTHUS FLORIDUS

(Sweet Shrub).

6 to 12 ins., S.		2.50	20.00
12 to 18 ins., S.		3.50	30.00
18 to 24 ins., S.	.75	4.50	40.00
2 to 3 ft., S.	1.00	6.50	60.00

### CYDONIA JAPONICA

(Japanese Quince).

	Per 10	Per 100	Per 1000
4 to 6 ins., S.	\$ 2.00	\$ 15.00	
6 to 12 ins., S.	2.50	20.00	
12 to 18 ins., S.	3.00	25.00	
18 to 24 ins., S.	\$ 0.75	4.50	40.00

### CYDONIA JAPONICA RUBRA (Japanese

Quince), true, upright, red, nonfruiting.

6 to 12 ins., C.	1.50	10.00	80.00
12 to 18 ins., C.	1.75	12.50	100.00
18 to 24 ins., C.	2.00	15.00	125.00
12 to 18 ins., 2-yr., well-br.	3.00	25.00	225.00
18 to 24 ins., 2-yr., well-br.	4.00	35.00	300.00

### CYTISUS SCOPARIUS

(Scotch Broom).

18 to 24 ins., S., br., heavy.	2.00	15.00	125.00
2 to 3 ft., S., br., heavy.	2.50	20.00	175.00
3 to 4 ft., S., br., heavy.	3.00	25.00	200.00

## FOREST AND SHADE TREES

### CERCIS CANADENSIS

(American Redbud).

6 to 12 ins., S.		2.50	17.50
12 to 18 ins., S.		3.00	22.50
18 to 24 ins., S.		4.00	32.50
2 to 3 ft., S.		4.75	42.50
3 to 4 ft., S.		5.50	50.00

### GYMNOCLADUS DIOICUS

(Kentucky Coffee Tree).

6 to 12 ins., S.	1.25	10.00	
12 to 18 ins., S.	1.50	12.50	
18 to 24 ins., S.	2.00	17.50	
2 to 3 ft., S.	4.50	30.00	
3 to 4 ft., S.	5.50		
4 to 5 ft., S.	6.50		
5 to 6 ft., S.	7.50		

### MALUS (Flowering Crab Apple).

Eleyi, bright red Floribunda, pink

4 to 5 ft., 9/16-in. caliper, 2-yr., grafts, br.	8.00	75.00	
5 to 6 ft., 11/16-in. caliper, 2-yr., grafts, br.	10.00	90.00	

### MELIA AZEDARACH (China-berry).

6 to 12 ins., 1-yr., S.	.60	5.00	
12 to 18 ins., 1-yr., S.	.75	6.00	
18 to 24 ins., 1-yr., S.	1.00	8.00	
2 to 3 ft., 1-yr., S.	1.25	10.00	
3 to 4 ft., 1-yr., S.	1.50	12.50	

### POPULUS NIGRA ITALICA

(Lombardy Poplar).

6 to 12 ins., C.		1.50	12.00
12 to 18 ins., C.		2.00	17.50
18 to 24 ins., C.		3.00	25.00

### PRUNUS PERSICA (Flowering Peach).

Double Red

Double White

Double Pink

5/16 to 7/16-in. caliper, 2 to 3 ft., dormant bud	3.50	30.00	
7/16 to 9/16-in. caliper, 3 to 4 ft., dormant bud	4.00	35.00	
9/16 to 11/16-in. caliper, 4 to 5 ft., dormant bud	4.50	40.00	
11/16-in. caliper and up, 5 to 6 ft., dormant bud	5.00	45.00	

### PRUNUS NEWPORT (Purpleleaf Plum).

### PRUNUS THUNDERCLOUD (Purpleleaf Plum).

7/16 to 9/16-in. caliper, 3 to 4 ft., dormant bud	4.00	35.00	
9/16 to 11/16-in. caliper, 4 to 5 ft., dormant bud	4.50	40.00	
3 to 4 ft., dormant bud, bush form.	5.00	45.00	
4 to 5 ft., dormant bud, bush form.	6.00	50.00	



## WHOLESALE PRICE LIST—FOREST NURSERY CO.

## FOREST AND SHADE TREES (Cont.)

## FORSYTHIA FORTUNEI

(Fortune Weeping Forsythia).

## FORSYTHIA INTERMEDIA

(Border Forsythia).

	Per 10	Per 100	Per 1000
6 to 12 ins., C.		\$ 2.50	\$ 20.00
12 to 18 ins., C.		3.50	30.00
18 to 24 ins., C.	\$ 0.75	4.00	35.00
12 to 18 ins., 2-yr., well-br.	1.25	6.00	
18 to 24 ins., 2-yr., well-br.	1.50	10.00	

## HYDRANGEA PANICULATA GRANDIFLORA

(Peegee Hydrangea).

12 to 18 ins., 2-yr., well-br.	2.00	15.00	125.00
18 to 24 ins., 2-yr., well-br.	2.50	20.00	175.00
2 to 3 ft., 2-yr., well-br.	3.50	30.00	250.00

## LIGUSTRUM AMURENSE

(Amur River North Privet).

L.O., field-grown, 1 and 2 canes		2.75	22.50
6 to 12 ins., 2 br.		3.00	27.50
12 to 18 ins., 2 br.	1.00	5.00	40.00

## LIGUSTRUM IBOLIUM (Ibodium Privet).

L.O., field-grown, 1 and 2 canes		2.75	22.50
6 to 12 ins., 2 br.		3.00	27.50
12 to 18 ins., 2 br.	1.00	5.00	40.00
18 to 24 ins., 2 br.	1.25	6.50	60.00

## LIGUSTRUM OBTUSIFOLIUM

(Border Privet).

6 to 12 ins., 2 br.		3.50	30.00
12 to 18 ins., 2 br.	1.00	7.00	60.00
18 to 24 ins., 2 br.	1.25	8.00	70.00
12 to 18 ins., 3 br. and up	1.25	8.00	70.00
18 to 24 ins., 3 br. and up	1.75	10.00	90.00

## LONICERA MORROWI

(Morrow's Honeysuckle).

## LONICERA TATARICA

(Tatarian Honeysuckle).

6 to 12 ins., hedging	.75	5.50	45.00
12 to 18 ins., hedging	1.00	7.00	65.00
18 to 24 ins., hedging	1.10	10.00	90.00
12 to 18 ins., 2-yr., T., well-br.	1.50	12.50	100.00
18 to 24 ins., 2-yr., T., well-br.	2.50	17.50	150.00
2 to 3 ft., 2-yr., T., well-br.	4.00	30.00	250.00

(Less 10% discount in 10,000 lots)

## RHUS CANADENSIS, (Aromatic).

(Fragrant Sumac).

4 to 6 ins., S.		5.00	45.00
6 to 12 ins., S.	1.00	8.00	75.00
12 to 18 ins., S.	1.25	10.00	90.00
18 to 24 ins., S.	1.50	12.50	

## RHUS COPALLINA (Shining Sumac).

## RHUS GLABRA (Smooth Sumac).

## RHUS TYPHINA (Staghorn Sumac).

6 to 12 ins., S.		1.25	10.00
12 to 18 ins., S.		1.50	12.00
18 to 24 ins., S.		2.00	15.00
2 to 3 ft., S.		2.50	20.00

## SYRINGA VULGARIS

(Common Purple Lilac), own root.

6 to 12 ins., 2-yr., S.	1.50	12.00	100.00
12 to 18 ins., 2-yr., S.	1.75	15.00	125.00
18 to 24 ins., 2-yr., S.	2.25	20.00	175.00
12 to 18 ins., 2-yr., mostly whips	2.00	17.50	150.00
18 to 24 ins., 2-yr., mostly whips	3.00	25.00	200.00

## VIBURNUM TOMENTOSUM

(Double-file Viburnum).

	Per 10	Per 100	Per 1000
4 to 6 ins., 1-yr., C.	\$ 1.50	\$ 10.00	
6 to 12 ins., 1-yr., C.	2.00	15.00	
12 to 18 ins., 2-yr., well-br.	4.00	35.00	
18 to 24 ins., 2-yr., well-br.	6.00	50.00	
2 to 3 ft., 2-yr., well-br.	7.50	65.00	

## ROBINIA PSEUDOACACIA (Black Locust).

4 to 6 ins., S.		.50	\$ 4.00
6 to 12 ins., S.		.75	6.00
12 to 18 ins., S.		1.50	10.00
18 to 24 ins., S.		1.75	15.00
2 to 3 ft., S.		2.00	17.50

## ULMUS AMERICANA (American Elm).

4 to 5 ft., T., well-br.	5.00	40.00	
5 to 6 ft., T., well-br.	7.50	65.00	
6 to 8 ft., T., well-br.	9.00	75.00	

## ULMUS PUMILA (Chinese Elm).

2 to 3 ft., S.		4.00	30.00
3 to 4 ft., S.		6.00	45.00
4 to 5 ft., S.	1.25	10.00	75.00
5 to 6 ft., S.	2.00	15.00	100.00

## NUT TREES

## CASTANEA MOLLISSIMA (Chinese

Chestnut). This is the true blight-resistant Chinese Chestnut from an orchard of selected strain.

12 to 18 ins., 1-yr., S.	4.00	30.00	
18 to 24 ins., 2-yr., S.	5.00	40.00	
2 to 3 ft., 2-yr., S.	7.00	55.00	
3 to 4 ft., 2-yr., S.	8.00	65.00	

## JUGLANS CINREA

(White Walnut—Butternut).

6 to 12 ins., S.	.75	5.50	
12 to 18 ins., S.	1.00	8.00	
18 to 24 ins., S.	1.25	10.00	
2 to 3 ft., S.	2.00	17.50	
3 to 4 ft., S.	4.50	35.00	

## VINES AND CREEPERS

## AMPELOPSIS QUINQUEFOLIA

(Virginia Creeper).

L.O., S.	.50	3.50	27.50
6 to 12 ins., 2-yr., S.	.60	5.00	40.00
12 to 18 ins., 2-yr., S.	.75	6.00	50.00

## CELASTRUS ORBICULATA

(Oriental Bittersweet).

## CELASTRUS SCANDENS

(American Bittersweet).

6 to 12 ins., S.	.50	3.00	22.50
12 to 18 ins., S.	.60	3.50	25.00
18 to 24 ins., S.	.70	4.00	30.00
2 to 3 ft., S.	.80	4.50	35.00
6 to 12 ins., 1-yr., C.	.50	3.00	25.00
12 to 18 ins., 1-yr., C.	.60	4.00	35.00
18 to 24 ins., 1-yr., C.	.75	5.00	45.00

## LONICERA JAPONICA HALLIANA

(Hall's Japanese Honeysuckle).

Small, lining-out			7.50
Medium, lining-out			12.50
2-yr., T., No. 1		6.50	60.00
2-yr., T., No. 2		5.50	50.00
2-yr., T., No. 3		4.50	40.00
3-yr., T., No. 1, heavy	1.00	8.00	75.00

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## PLANT NOTES HERE AND THERE

By C. W. Wood

It was indeed a happy accident that brought the Japanese plant, *Astilbe simplicifolia*, to the western world. Report has it that astilbe was a nonpaying passenger that reached England in a clump of *Schizocodon soldanelloides*. If that is correct, the unknown immigrant has surpassed its aristocratic traveling companion as far as garden uses are concerned. While the *schizocodon*, popularly known as fringed galax, is more or less difficult under eastern American conditions, the astilbe is easy in almost any moist situation. Here in northern Michigan in our trials it seemed better satisfied, though, if given a little shade during the hottest part of the day.

It forms a tuft of bronzy foliage, somewhat restrained compared to that of its larger cousins, and sends aloft little 6-inch spires of fluffy, fleecy flowers in whitish and pinkish shades. Considered from every angle, it is one of the nicer of the easy rock garden plants now available to Americans and is, at the same time, not generally grown. It is not at all difficult to grow from fall or winter-sown seeds, though it usually shows slight variation in flower color. Then, too, it has been wedded to the *arendsi* hybrids to form a long list of named varieties in European gardens, which in turn offer American gardeners interesting experiences with the hybrid seeds even if they find the named forms hard to come by.

### A White Loosestrife

Many nurserymen tell me they discontinued growing *Lythrum salicaria* because too many of their customers disliked its astringent color. I guess there is little one can do about matters of that kind except to offer customers something they cannot object to. And in the case of this loosestrife the answer is at hand in its white-flowered form, *Lythrum salicaria alba*. Unfortunately, few growers have taken advantage of the opportunity, if my observation is correct. Why it, the white form, is not more often seen is hard to understand, because it possesses none of the objections one ever hears against the type.

In addition to its value as a landscape ornament, it has much to recommend it as a cut flower for July and August use. One should not obtain it, however, under the impression that it will reach the height of four feet which one can expect from the type in rich, moist soil; rather, it will seldom exceed 30 inches under the most generous treatment and more often than not will stay around two feet under ordinary care. And unless one is generous with moisture, it is not apt to make a nuisance of itself by spreading.

A correspondent asks for a few comments on three gray-leaved plants for rock garden use which are not commonly found in nurs-

eries. It would have made it easier if he had given some details of his growing conditions, especially as to his soil, but his interest in gray-leaved plants indicates that he has good drainage or can provide it.

The first one that comes to mind is the plant known in gardens as *Anthemis aizoon* (*Achillea ageratifolia*, according to most botanists). It is a good mat-maker for sunny, perfectly drained situations. The mats are made up of woolly, silvered leaves, spreading in the way of many achilleas, though not so rampagously as to make it a nuisance except among frail plants. From the mats spring 4 to 6-inch stems crowned with white daisies in June. It is

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1 to 2 mm., 8 to 12 ins. in height	\$10.00
2 to 3 mm., 12 to 15 ins. in height	15.00
3 to 4 mm., 15 to 18 ins. in height	18.00
4 to 6 mm., 18 to 24 ins. in height	35.00
6 to 12 mm., 24 to 30 ins. in height	55.00
Conservation grade, 3 to 12 mm., 12 to 30 ins. in height	22.50

Will be shipped cut back to about 8 ins. unless stated otherwise. Sample for \$2.00. Special prices on large quantities. Heights are approximate.

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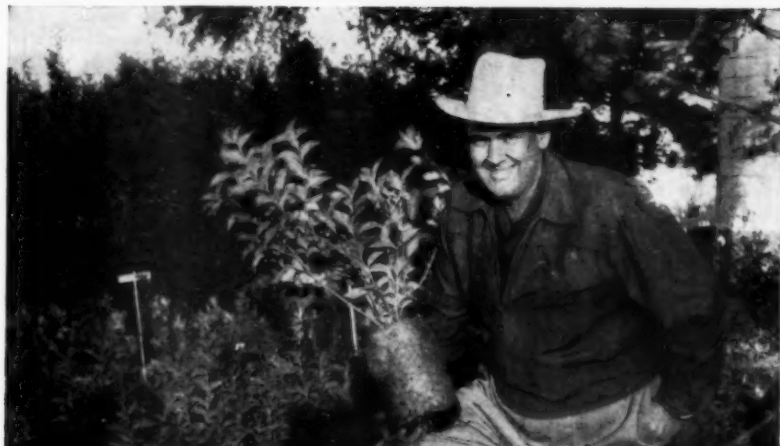
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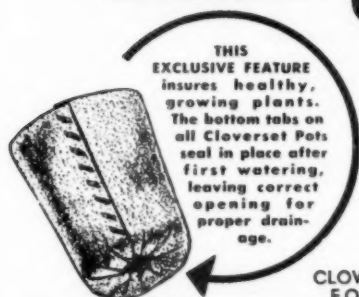


ACTUAL UNRETOUCHED PHOTO OF KENNETH HAYSER OF CLOVERSET HOLDING SHRUB POTTED 9 MONTHS AGO

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seal in place after  
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Size	Height	Top Diam.	Nearest Clay Pot	No. In Carton	Weight Per 1000	Price Per 100	Price Per 1000
No. 0	5 1/2 ins.	5 ins.	8 ins.	200	210 lbs.	\$3.25	\$30.00
No. 1	6 1/2 ins.	6 ins.	7 ins.	100	340 lbs.	4.50	42.50
No. 2	8 1/2 ins.	7 ins.	8 ins.	100	535 lbs.	5.00	47.50
No. 3	9 ins.	8 ins.	9 ins.	100	610 lbs.	5.50	52.50
No. 4	13 ins.	12 ins.	.....	25	Per 100 130 lbs. Per 100 100 lbs.	Per 25 \$7.00 Per 100 \$23.75	Per 50 \$13.25 Per 75 \$18.75 Per 1000 \$210.00

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Please send items checked; I enclose \_\_\_\_\_ c.

- ☐ Sample set of 5 pots at 50c (limit one set).  
☐ Sample of new "Cultural Directions" folders which I may use for my customers.  
☐ Free illustrated wall chart for potting shed.  
☐ Free folder about newspaper ad mats.

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# PENNSYLVANIA EVERGREEN SEEDLINGS

grown at high altitude, in the heart of the  
ORIGINAL PENNSYLVANIA PINE FORESTS

## Pine Seedlings

	Per 100	Per 1000
Scotch Pine, Riga, 2-0, 2 to 4 ins.	\$ 2.00	\$ 12.50
2-0, 4 to 8 ins.	4.00	25.00
3-0, 6 to 8 ins., well-budded, not branched	4.50	27.50
3-0, 8 to 16 ins., very good	6.00	35.00
American Red Pine, 3-0, 4 to 6 ins.	4.00	25.00
3-0, 6 to 9 ins.	6.00	35.00
Japanese Red Pine, 3-0, 8 to 16 ins.	5.00	30.00
Austrian Pine, 2-0, 3 to 5 ins.	4.00	25.00
3-0, 8 to 14 ins., very good	6.00	35.00
White Pine, 2-0, 3 to 5 ins.	3.50	20.00
3-0, 5 to 10 ins.	6.00	35.00
Mugho Pine (True Dwarf Tyrolean) 2-0, 2 to 4 ins.	3.50	25.00
Mugho Pine (True Dwarf Tyrolean) 3-0, 3 to 5 ins.	6.00	35.00
Mugho Pine 4-0, 4 to 8 ins.	8.00	....

## Spruce Seedlings

Norway Spruce, 2-0, 4 to 6 ins.	2.50	15.00
3-0, 6 to 10 ins.	4.50	30.00
3-0, 10 to 16 ins.	6.00	40.00
Colorado Blue Spruce, 2-0, 2 to 4 ins.	3.00	20.00
2-0, 4 to 6 ins.	5.00	35.00
3-0, 3 to 5 ins.	6.00	40.00
3-0, 5 to 9 ins.	7.00	50.00
Red Spruce, 2-0, 3 to 5 ins.	3.00	20.00
3-0, 5 to 9 ins.	4.00	30.00
3-0, 9 to 12 ins.	6.00	35.00
White Spruce, 2-0, 3 to 5 ins.	3.00	20.00
3-0, 5 to 9 ins.	5.00	35.00
Black Spruce, 3-0, 4 to 6 ins.	3.00	20.00
3-0, 6 to 10 ins.	5.00	30.00

## Fir Seedlings

Balsam Fir, 3-0, 3 to 6 ins.	6.00	40.00
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## Larch Seedlings

Japanese Larch, 3-0, 8 to 16 ins.	5.00	40.00
European Larch, 3-0, 7 to 16 ins.	5.00	40.00
3-0, 16 to 24 ins.	10.00	....

## Hemlock Seedlings

Canadian Hemlock, 2-0, 3 to 5 ins.	5.00	35.00
3-0, 6 to 12 ins.	8.00	60.00
4-0, 12 to 20 ins.	15.00	100.00

## Arborvitae

American Arborvitae, 2-0, 3 to 5 ins.	3.00	20.00
3-0, 5 to 8 ins.	5.00	35.00

## Cedar Seedlings

Red Cedar, 2-0, 4 to 8 ins.	4.00	20.00
2-0, 8 to 12 ins.	5.00	30.00

## Chestnut Seedlings (blight-resistant)

	10 Lots	100 Lots	1000 Lots
Chestnut, 1-0, 8 to 14 ins.	\$0.15 ea.	\$0.12 ea.	\$0.11 ea.
2-0, 12 to 24 ins.	.20 ea.	.18 ea.	.15 ea.

Transplant listing will be sent on request.

We have for this season Riga strain Scotch Pine seedlings, the best strain known for select and fastest-growing CHRISTMAS TREES.

### It Pays to Plant the Best

### Excellent Root Systems: Hardy. ORDER NOW!

Why not make a planting of Scotch this season? It will pay you large dividends.

All stock offered subject to prior sale; all seedlings or transplants subject to 5 per cent discount on 25,000 or more.

Exclusive of 2 to 4-in. Scotch Pine and 4 to 6-in. Norway Spruce.

**SCHROTH'S NURSERY**  
INDIANA, PA.  
— SEEDLINGS OF QUALITY —

easy to handle in the garden when given the conditions mentioned before. In fact, sunshine and sharp drainage to keep excess moisture from the woolly or silky, or both, foliage are generally the requirements of gray-leaved plants, and one is usually safe to follow the rule in all cases if reliable information to the contrary is not at hand.

One of the best of the small, gray-leaved plants and the best of the tiny, hardy geraniums is *Geranium argenteum*. It is a plant that the beginner, as well as the expert gardener, can grow and enjoy year after year. It is made up of a tuft of lovely, silvered leaves, beautiful from their coming in spring until their passing when the plant goes to sleep for the winter. In early summer the plant has a generous display of large flowers. It is variable as to flower color, ranging from pure white (in variety *alba*) through various shades of pink, and one variety has deep purple flowers. The last is, however, so rare that it is not apt to be found even with a lot of searching. A packet of seeds will probably give one plants with white or near-white flowers, while others will run through shades of pink, after which they may be grown from cuttings of selected plants to assure uniform color.

### Propagating Geraniums

My favorite way of propagating small geraniums, which never produced many seeds in our trials, is to dig the clumps just as they are commencing top growth in spring and pull away each little tuft with a heel of the main root. These, inserted in sand in a propagating frame, preferably with slight bottom heat, will root readily and grow into salable plants by the following year. For some reason, the plant has the reputation of being both difficult and short-lived, which is really far from the truth. Give it a deep soil, well drained with grit to keep the plant as dry as possible through the winter and containing enough leaf mold to hold moisture during dry, summer weather. If both these conditions cannot be supplied in the same growing medium, that of drainage is the more important, because one can supply moisture from the hose to keep the plant going in dry weather. The foregoing, with full sunshine and protection from cold winter and spring winds, should make the plant a permanent fixture in any garden.

Mention of *helichrysum* is apt to bring to mind the common everlasting or strawflowers, which are usu-



# STRAWBERRIES—RHUBARB—ASPARAGUS—GRAPES

**For Immediate or Later Delivery, as Desired**

Carefully dug, graded and packed for shipment.

## STRAWBERRY PLANTS

Grown in chemically treated soil; free from disease and insects.

We are facilitated to take care of your strawberry orders, large or small, making shipments direct to your customers under your tags, or direct to you in large lots for reshipment. We recommend shipping soft, succulent plants like strawberries direct from grower to planter. When handling orders in this manner, plants are received by your customers in good, fresh condition for planting. We are furnishing plants in this manner for several of the larger catalog houses throughout the country. Dormant plants from our modern cold storage are used in filling all late spring orders because experience has proven they are much more satisfactory. Write us for details on our pack-out service on strawberries.

	Per 25	Per 100	Per 250	Per 1000
Albritton, midseason	\$0.50	\$1.50	\$2.75	\$10.00
Ambrosia Late, late	.55	1.60	3.00	11.00
Armora, midseason	.55	1.60	3.00	11.00
Big Joe, late	.55	1.60	3.00	11.00
Blakemore, early	.45	1.35	2.50	9.00
Catskill, midseason	.55	1.60	3.00	11.00
Dorsett, early	.55	1.60	3.00	11.00
Dunlap, early	.45	1.35	2.50	9.00
Eden, midseason	.55	1.60	3.00	11.00
Empire, midseason	.60	1.70	3.25	12.00
Fairfax, early	.55	1.60	3.00	11.00
Fairland, early	.50	1.50	2.75	10.00
Fairpeaks, late	.60	1.70	3.25	12.00
Gem, everbearing	.80	2.50	5.50	20.00
Great Bay, midseason	.60	1.70	3.25	12.00

	Per 25	Per 100	Per 250	Per 1000
Klondike, early	\$0.50	\$1.50	\$2.75	\$10.00
Klonmore, early	.50	1.50	2.75	10.00
Massey, midseason	.50	1.50	2.75	10.00
Midland, early	.60	1.70	3.25	12.00
Missionary, early	.45	1.35	2.50	9.00
Premier, early	.55	1.60	3.00	11.00
Red Crop, midseason	.55	1.60	3.00	11.00
Red Star, late	.60	1.70	3.25	12.00
Robinson, midseason	.50	1.50	2.75	10.00
Sparkle, midseason	.55	1.60	3.00	11.00
Streamliner, everbearing	.80	2.50	5.50	20.00
Superfection, everbearing	.80	2.50	5.50	20.00
Temple, early	.50	1.50	2.75	10.00
Tennessee Beauty, midseason	.55	1.60	3.00	11.00
Tennessee Shipper, early	.55	1.60	3.00	11.00
Vermillion, midseason	.60	1.70	3.25	12.00

## VICTORIA RHUBARB ROOTS

5/8 to 1 -in. caliper	2.25	6.50	15.00	55.00
1 to 1 1/2-in. caliper	2.50	8.00	18.75	70.00
1 1/2 to 2 -in. caliper	3.00	10.00	23.75	90.00

## GRAPEVINES

	Each	Per 10	Per 100	Per 1000
Agawam (red), 2-yr., No. 1	\$0.30	\$2.00	\$15.00	\$125.00
Agawam (red), 1-yr., No. 1	.25	1.75	12.00	100.00
Caco (red), 2-yr., No. 1	.30	2.00	15.00	125.00
Caco (red), 1-yr., No. 1	.25	1.75	12.00	100.00
Catawba (mahogany), 2-yr., No. 1	.30	2.00	15.00	125.00
Catawba (mahogany), 1-yr., No. 1	.25	1.75	12.00	100.00
Concord (blue), 2-yr., No. 1	.25	1.75	12.00	100.00
Concord (blue), 1-yr., No. 1	.20	1.50	9.00	80.00
Fredonia (black), 2-yr., No. 1	.30	2.00	15.00	125.00
Fredonia (black), 1-yr., No. 1	.25	1.75	12.00	100.00
Niagara (white), 2-yr., No. 1	.30	2.00	15.00	125.00
Niagara (white), 1-yr., No. 1	.25	1.75	12.00	100.00
Portland (white), 2-yr., No. 1	.30	2.00	15.00	125.00
Portland (white), 1-yr., No. 1	.25	1.75	12.00	100.00
Worden (black), 2-yr., No. 1	.30	2.00	15.00	125.00
Worden (black), 1-yr., No. 1	.25	1.75	12.00	100.00

## ASPARAGUS ROOTS

We are the largest growers of asparagus roots in America. The continued increase in demand for our roots is ample proof of our customers' satisfaction. Our asparagus has made a very good growth again this season, and test digging from various farms indicates the crowns will average better in quality than ever before.

	Per 25	Per 100	Per 250	Per 1000
3-yr., No. 1	\$1.25	\$4.00	\$8.75	\$30.00
2-yr., No. 1	1.00	3.00	5.75	20.00
1-yr., No. 1	.75	2.50	4.25	14.00

Write for special prices on quantity lots of these items. We can quote even more attractive prices than those specified in this advertisement to buyers interested in large quantities.

**FREE PACKING FOR CASH WITH ORDER.** Our regular Wholesale List offers a complete line of nursery stock. If you failed to receive your copy, write us today. When requesting wholesale rates, kindly use your printed stationery indicating you are entitled to trade prices.

## BUNTINGS' NURSERIES, Inc.

**Box 3**

**SELBYVILLE, DEL.**

# POTTED LINERS

	Per 100	Per 1000
<i>Taxus media</i> Adams		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	\$16.00	\$150.00
<i>Taxus media andersoni</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
2-yr., 2 1/4-in. rose pots, 8 to 12 ins.	22.50	200.00
<i>Taxus media brownii</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	160.00
<i>Taxus baccata repandens</i>		
1-yr., 2 1/4-in. rose pots, 3 to 5 ins.	22.50	
<i>Taxus cuspidata capitata</i> (cutting grown)		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
<i>Taxus cuspidata</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
2-yr., 2 1/4-in. rose pots, 8 to 12 ins.	22.50	200.00
<i>Taxus media hatfieldi</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
<i>Taxus media hatfieldi</i> No. 18		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
2-yr., 2 1/4-in. rose pots, 8 to 12 ins.	25.00	225.00
<i>Taxus media hatfieldi</i> No. 24		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
<i>Taxus media hicksi</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
<i>Taxus intermedia</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
2-yr., 2 1/4-in. rose pots, 6 to 12 ins.	22.50	200.00
<i>Taxus kelseyi</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
<i>Taxus media Moon's columnaris</i>		
1-yr., 2 1/4 in. rose pots, 4 to 6 ins.	16.00	150.00
2-yr., 2 1/4-in. rose pots, 8 to 15 ins.	22.50	200.00
<i>Taxus media thayerae</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
<i>Thuja occidentalis elegantissima</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	160.00
<i>Thuja occidentalis douglasii aurea</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
<i>Thuja occidentalis pyramidalis</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
<i>Thuja occidentalis globosa</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
<i>Thuja occidentalis wareana</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
<i>Thuja occidentalis woodwardi</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
<i>Ilex crenata hetzi</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	22.50	200.00
<i>Ilex crenata bullata</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	22.50	200.00
<i>Ilex glabra</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	22.50	200.00
<i>Ilex crenata rotundifolia</i>		
1-yr., 2 1/4-in. rose pots, 6 to 8 ins.	22.50	200.00
<i>Juniperus horizontalis plumosa</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	16.00	150.00
<i>Juniperus horizontalis Bar Harbor</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
<i>Juniperus communis depressa aurea</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
<i>Juniperus glauca hetzi</i>		
1-yr., 2 1/4-in. rose pots, 6 to 8 ins.	20.00	180.00
<i>Juniperus communis hibernica</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
<i>Juniperus chinensis pfitzeriana</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	25.00	225.00
<i>Juniperus chinensis pfitzeriana glauca</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	27.50	250.00

Complete catalog on request.

## HEASLEY'S NURSERIES

Freeport Rd., R. 3

BUTLER, PA.

ally forms of the annual *Helichrysum bracteatum*. However, *H. anatolicum* is a hardy perennial, one of the 400 or more species found mostly in south Africa and Australia, nearly all of which are too tender for northern gardens. *Anatolicum* comes from Asia Minor, I believe, and was hardy here in temperatures of 40 degrees Fahrenheit below zero. To be hardy, though, it had to have a spot where water would not stand on the woolly leaves or around the crown during winter or spring. If one's soil is heavy, the best spot in the garden would be in a vertical wall with a southern exposure. It makes a mound of gray, woolly foliage, ornamental in itself throughout the open seasons here or throughout the 12 months where snow does not cover the ground for four months or more of the year. It is particularly brilliant during July and August when covered with its brilliant yellow heads. Easily grown from seeds or from cuttings.

### Hybanthus

The books tell us there are about 50 species of *hybanthus*, mostly from the tropics and subtropics. One would never suspect that to be true by looking at gardens. And the infrequency of the various *hybanthus* is easy to understand if gardeners base their opinions on the one species, *Hybanthus concolor*, a plant of moist woods from the south, west and Ontario, which they are apt to know and whose small, nodding, greenish flowers are somewhat unattractive.

An Arkansas reader asks about a small plant that he saw in Texas last summer which can only be another *H. verticillatus*, of the *hybanthus* species native to the United States. In addition to identity, he asks if it is worth cultivating.

It can scarcely be called spectacular, to be sure, but it is a pleasing small thing when it clothes itself in red and white violetlike (it is a cousin of the violet) flowers in summer. My notes fail to say exactly when that event occurs, though I remember it as early summer. It grew about 10 inches tall here, making a good rock garden plant as well as a candidate for a position at the front of the border. Speaking from the viewpoint of a northern gardener, I believe that it would probably surprise him by being hardy, especially if he had material from the northern part of its range; our friend from Arkansas would, I am sure, find it entirely hardy there and no doubt would also find it to be good

# THE JIFFY WAY

## 3 MEN BALL AND BURLAP 200 TREES PER HOUR



JIFFY BALLER DIGS TREE AND JIFFY JUTE BAG IS PULLED OVER BALL.



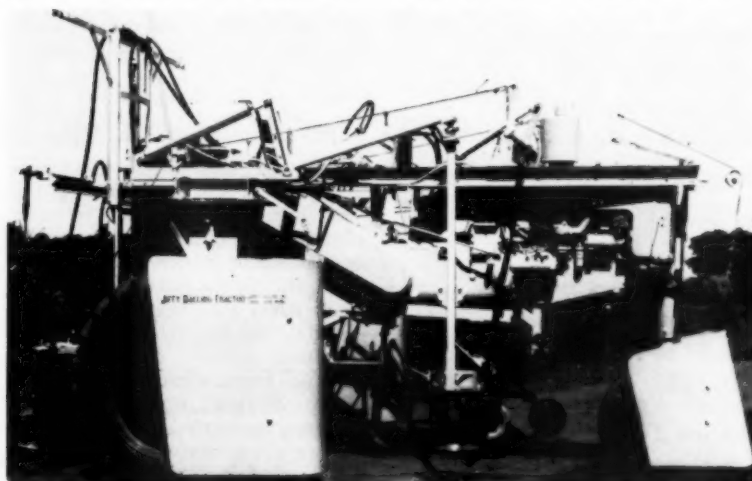
WHEN WORKMAN LIFTS BALL, THE JIFFY JUTE BAG ADJUSTS ITSELF SNUGLY.



WORKMAN CLOSES TOP WITH TWO OR THREE NAILS.

## THE JIFFY BALLING TRACTOR

(6-ft. 2-in. Clearance — Adjusts to 36, 42 and 48-inch Row Spacing)



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DIGS SHRUBS

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### All Equipment Hydraulically Controlled

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**THE JIFFY BALLING CO., INC.**

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TIME PAYMENT  
PLAN AVAILABLE.  
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Gassing infested soil with this effective soil fumigant containing methyl bromide kills weed and grass seeds in topsoil . . . controls root-attacking insects and nematodes and allows the plant root system to expand to the fullest . . . controls certain soil-borne fungi.

There is no need to throw away seed bed soil because of soil pests. Treat with Dowfume MC-2 to restore its capacity to produce clean, healthy seedlings. Moreover, seedlings grown in treated beds and flats are remarkably uniform and vigorous and bring more profit to the nurseryman.

Ask your supplier for Dowfume MC-2 and the low-cost kit for its application. Or write our Fumigant Department for full information. THE DOW CHEMICAL COMPANY, Midland, Michigan.

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property if he numbers many curious folks among his customers. Best of all, from the standpoint of the casual gardener, it will stand a lot of abuse, if it is given well-drained soil in full sun.

## Stenosiphon

The same Arkansas reader asks about another southwestern plant, *Stenosiphon linifolius*, which should be of interest to all growers of hardy plants. I have grown it three or four times, always with much pleasure, and naturally wonder why it has never taken the fancy of eastern gardeners, unless it could be that it has shown quirks of behavior in other sections which were not manifested here. (If that is the case, will you please write me a brief note on its behavior with you?) The following note is based on experiences here in the 1930's and 1940's.

According to that experience, this gaura cousin has almost reached the spectacular stage, with plants to four or five feet in height (seven feet, it is said, on the rich plains where it is native) and long (a foot or even two feet) spikes of white, gauralike flowers during July and August, when flowers are needed most. Like most plains plants, it is entirely at home in the east, doing well here in sunny, well-drained situations and preferring a limey soil, I believe. This brief description will indicate to the experienced plantsman, I think, a wide field of usefulness for a plant of that kind, providing it is not too eccentric.

## Phlox Stolonifera Blue Ridge

I am glad to note that this creeping phlox is to be introduced this year, because it possesses a color, a lovely shade of blue, not heretofore seen in any of the creeping phloxes, either *stolonifera*, *subulata* or otherwise, that I have seen. I have observed it for two or three years in an Ohio nursery, my admiration growing after each visit. Unlike many *stolonifera* forms which have blooming stems to a foot in height, this one has not exceeded four inches in specimens seen. And unlike the more popular *subulata* forms, which are best in full sun, this one, like the type which grows naturally in moist woods from Pennsylvania to Georgia, is best in some shade. It looks to me like a splendid addition to our list of shade-loving plants.

In the same nursery I saw a strain of new *heuchera* hybrids, called Bressingham hybrids, I believe, though I cannot now lay my hands on my notes. They impressed me as

# PACIFIC COAST NURSERY

*Specializing in*  
**FRUIT TREE  
 SEEDLINGS  
 and  
 SHADE  
 TREES**



Established 1914 by  
**JOHN HOLMASON**

**MYROBALAN  
 MAZZARD  
 MAHALEB  
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 SEEDLINGS**

Present Owners: **JOHN HOLMASON** and **MARTIN** and **J. P. HOLMASON**

**2244 N. Skidmore Court ★ Portland, Oregon**

Pioneer Seedling Growers on the Pacific Coast since 1914.  
 The Largest Fruit Tree Seedling Growers in the United States.

We endeavor to grow hardy, well-matured fruit tree seedlings, free from disease. (They are graded right, packed right, and shipped in combination cars.)

Our stone fruit tree seed supply is obtained from our own seed orchard, and these seedlings are as free of disease as it is possible to have them. Our trees are regularly inspected by the state inspector. We will always do our utmost to keep improving on the growing of good, clean, hardy seedlings.

Our apple seedlings are from a good source of French crab apple seeds, and our domestic apple seeds are from the Winesap apples.

Our pear seedlings are from the Bartlett pear seeds, as this is the only source of seed supply that we have at the present time. Our quince seedlings are grown from Angers quince cuttings.

## FRUIT TREE SEEDLINGS

French Apple Seedlings, str. and br.  
 Domestic Apple Seedlings, str. and br.  
 Bartlett Pear Seedlings, str. and br.  
 Mahaleb Cherry Seedlings  
 Mazzard Cherry Seedlings  
 Myrobalan Plum Seedlings  
 American Plum Seedlings  
 Angers Quince Rooted Cuttings  
 English Privet (*Ligustrum Vulgare*)  
 Chinese Elm (*Ulmus Pumila*)  
 Seedlings

Cutleaf Weeping Birch  
 European White Birch  
 Clump Birch  
 Chinese Elm (*Ulmus Pumila*)  
 Mountain Ash  
 Norway Maple  
 Red Maple (*Acer Rubrum*)  
 Schwedler Maple  
 Silver Maple

## SHADE TREES

Paul's Scarlet Hawthorn  
 Bechtel's Crab  
 Plum, Triloba, Cistena, Blireiana  
 Thundercloud  
 Flowering Cherry, Kwanzan, Mt. Fuji  
 and Shiro  
 Crab, Hopa, Floribunda, Dolgo  
 Dwarf Pear, Anjou, Clapp Favorite,  
 Flemish Beauty

(If you haven't tried our seedlings, send us a trial order.)

OUR PRICE LIST SENT UPON REQUEST

# JEWELL ORNAMENTALS

## Trees Shrubs Vines

### ORNAMENTAL TREES

Bechtel Crab Apple	Per 10	Per 100	European Birch Clumps	Per 10	Per 100
3 to 4 ft.	\$10.00	\$ 95.00	3 to 4 ft.	\$12.50	\$115.00
4 to 5 ft.	15.00	140.00	4 to 5 ft.	20.00	190.00
Eley Crab Apple			Canoe Birch		
2 to 3 ft.	5.00	45.00	6 to 8 ft.	14.00	125.00
3 to 4 ft.	7.50	70.00	8 to 10 ft.	20.00	180.00
4 to 5 ft.	10.00	95.00	1 1/4 to 1 1/2-in. cal.	25.00	225.00
Hopa Crab Apple			Cutleaf Birch		
2 to 3 ft.	4.50	40.00	6 to 8 ft.	30.00	275.00
3 to 4 ft.	7.00	65.00	European Mountain Ash		
4 to 5 ft.	9.00	85.00	4 to 5 ft.	8.50	80.00
5 to 6 ft.	12.50	110.00	5 to 6 ft.	12.50	110.00
Klehm Crab Apple			Prunus Cistena		
2 to 3 ft.	7.00	65.00	2 to 3 ft.	8.00	75.00
3 to 4 ft.	10.00	95.00	Prunus Padus		
Red Silver Crab Apple			18 to 24 in.	5.00	45.00
2 to 3 ft.	5.00	45.00	2 to 3 ft.	6.50	60.00
3 to 4 ft.	7.50	70.00	3 to 4 ft.	8.50	80.00
4 to 5 ft.	10.00	95.00	Prunus Triloba		
5 to 6 ft.	13.50	125.00	2 to 3 ft.	7.50	70.00
			3 to 4 ft.	10.00	90.00

### ORNAMENTAL SHRUBS

Pink Almond			Philadelphus Bouquet Blanc		
18 to 24 ins.	5.00	45.00	18 to 24 ins.	3.50	30.00
2 to 3 ft.	6.00	55.00	2 to 3 ft.	4.50	40.00
Redleaf Barberry			Philadelphus Lemoine		
18 to 24 ins.	5.50	50.00	2 to 3 ft.	4.50	40.00
Thornless Barberry			3 to 4 ft.	6.00	55.00
12 to 15 ins.	2.80	25.00	Philadelphus Minnesota Snowflake		
15 to 18 ins.	4.00	35.00	(Plant. Pat. No. 538)		
Cornus, Variegated			2 to 3 ft.	7.00	65.00
3 to 4 ft.	9.00	85.00	3 to 4 ft.	9.00	85.00
Cotoneaster Acutifolia			Spiraea Prunifolia		
18 to 24 ins.	3.50	30.00	18 to 24 in.	3.50	30.00
2 to 3 ft.	4.00	35.00	2 to 3 ft.	4.50	40.00
Cotoneaster Divaricata			Tamarix Hispida		
18 to 24 ins.	6.00	55.00	3 to 4 ft.	5.00	45.00
2 to 3 ft.	8.50	80.00	4 to 5 ft.	6.50	60.00
Deutzia Gracilis			BUDDLEIA No. 1	3.20	28.00
9 to 12 ins.	2.50	22.00	Charming, Concord,		
15 to 18 in.	5.50	50.00	Dubonnet, Ile de France,		
Hydrangea A.G.			Orchid Beauty, White Cloud		
18 to 24 ins.	5.00	45.00	Royal Red No. 1	4.00	35.00
2 to 3 ft.	6.00	55.00	Empire Blue No. 1	4.00	35.00
Hydrangea P.G.			LARGE-FLOWERING CLEMATIS		
12 to 18 ins.	3.20	28.00	2 1/4-in. pot plants	4.00	35.00
2 to 3 ft.	6.00	55.00	3 -in. pot plants	6.50	60.00
Hypericum Aureum			2-yr. No. 1, field-grown	8.00	75.00
12 to 18 in.	3.00	28.00	Mme. Andre, red.		
18 to 24 in.	4.50	40.00	Henryi, white. (No. 1 only)		
Kolkwitzia Amabilis			Jackmani, purple.		
18 to 24 in.	5.00	45.00	Lanuginosa, large white.		
2 to 3 ft.	6.00	55.00	Ramona, clear blue.		
Persian Purple Lilac			Baron Vaillard, lavender-pink.		
2 to 3 ft.	4.00	35.00			
Rothomagensis Lilac					
2 to 3 ft.	4.50	40.00			
3 to 4 ft.	6.00	55.00			

Above stock available for shipment at buyers pleasure from our storage and greenhouses.

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a distinct advance in heuchera breeding, not only because of their wide range of colors but also because of their flower size and blooming habits. The colors ran all the way from white through many shades of pink to coral and reds. If you find heucheras a profitable item (most neighborhood nurseries do), you will want to investigate this strain.

### Lotus Corniculatus

Replying to a beginner in our always interesting, if not always lucrative business: The bird's-foot trefoil, *Lotus corniculatus*, being best known as a forage crop, is often scorned by planters of ornamental gardens as something beneath their level. In reality, it is a pretty little plant for sunny spots where it can spread out and show its yellow, usually red-edged, flowers from May on. Its double form is even more desirable, because it does not self-sow and is also more free-flowering. The type is best grown from seeds, while the double form may be divided.

### Dianthus Pindicola

I had a letter in early summer from a careful plant student who is currently interested in pinks, asking for information on *Dianthus pindicola*. It had me stumped at first, because I could not find any reference to the name in the literature available to me, and I assumed that it was a misprint for *D. pyridiculus*, a name which formerly represented a small deltoides form in gardens and also a form of *D. viscidus*, according to Bailey. Incidentally, Bailey's monograph does not mention *D. pindicola* at all. I gave the matter up but in the meantime wrote to a friend in England and the past week received the following note, which I am pleased to include here with the hope that it may interest others:

"*Dianthus pindicola* is rather new to cultivation in this country (England), having been found in the Pindus mountains in Greece a few years ago, and was first exhibited here in 1946 or 1947, I think. It makes a tight cushion of short, silvery-gray, broad leaves, held tight against the soil, which supports numerous lovely pinks, rose pink in colour with buff underneath, on short stems. It has made a favorable impression on our gardeners, being easy in a rather sterile, stony soil and having a generally cheerful disposition."

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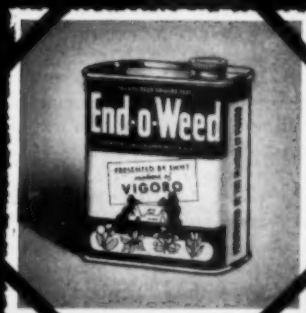
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## This Business Of Ours

### Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

#### THE ORCHID HOBBY

The growth of amateur interest in orchid raising has been phenomenal in the past few years. This is a phenomenon in more ways than one. Of all the plants for a novice to select to grow, this is probably the most difficult, yet the interest is so keen that it is obvious that the proportion of expert plantmen among the hobbyists must be few. A beginner trying to grow an orchid is like a would-be artist trying to paint a portrait at the first attempt.

Orchid growing is not exactly of direct interest to nurserymen, but the sudden growth of the hobby teaches us the lesson that we can never tell which will be the most popular plant. At the turn of the century this hobby was truly the sport of kings. Wealthy hobbyists grew orchids in their own greenhouses and employed trained gardeners to tend them. The plants were obtained from many countries, and some hobbyists even sent plant collectors into the tropical jungles to collect rare specimens. Today such expenditures are generally impossible, but that has not discouraged attempts to grow them. Now, under the best circumstances, they are grown in small greenhouses attached to homes or in warden cases or, at the worst, in sun parlors.

The fascination of growing these beautiful flowers has captured the imagination of many types of persons. They interest rich persons and those of modest means, the young and the old, the plant expert and the complete novice. My teenage daughter is attempting to grow them as her first excursion into plant growing. My brother, a chemist, whom my father could never interest in plants, has suddenly become an avid fancier. A well-known and extremely successful grower is Dr. E. N. Cory, the Maryland state entomologist.

It is difficult to analyze the sudden popularity of orchid raising. The orchid is a snobbish as well as a beautiful flower. It may be that hobby gardeners associate orchids with the precious, the rare and costly. Yet, with the increasing popularity

of travel, many persons see them in abundance in the tropics and subtropics.

About the only way we can influence the growers of these beautiful exotics is to encourage them to grow the easier types to reduce their disappointment. The terrestrial orchids might be better choices, but even these are not too easy to grow. About 15 years ago I collected from the woods a number of lady-slippers (cypripediums) and planted them in a likely, shady corner by the house. They grew and flowered, but the patch grew smaller each year. It would be all right to encourage the planting of the commoner varieties of lady-slipper, but the rare species are better left in the wild

where they have a greater chance of surviving. It might make an interesting project for some plant expert to try to grow these rare species from seed.

As strange as this is for a hobby, probably a great deal of good enjoyment and plant consciousness will come of it, and, at the least, we know that plants are not being ignored.

#### THOUGHTS ON CULTIVATING

The practice of cultivating or stirring the top few inches of soil around crops is an ancient one. Every once in a while someone comes along with what he believes is a better idea, but in the end it usually turns out to be just another half-truth. All the innovations work so far, and then a fault shows up and we go back to the original idea.

Remember "Plowman's Folly"? For awhile we all flirted with the idea of growing our nursery stock among weeds or grass. The funny part of it is that it works just so far, and then trouble begins. Once a crop

## NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS		
	Per 10	Per 100
<i>Clethra alnifolia</i>		
1 1/2 to 2 1/2 in.	\$4.00	\$35.00
2 to 3 ft.	6.00	50.00
3 to 4 ft.	8.00	70.00
<i>Ilex verticillata</i>		
2 to 3 ft.	6.00	50.00
3 to 4 ft.	7.00	60.00
<i>Viburnum cassinoides</i>		
2 to 3 ft.	5.00	40.00
3 to 4 ft.	6.00	50.00
<i>Viburnum dentatum</i>		
2 to 3 ft.	4.50	35.00
3 to 4 ft.	6.00	50.00

SUGAR MAPLES		
	Unit price in quantities	
	10 to 49	50 to 250
<i>Acer saccharum</i>		
1 1/4 to 1 1/2 in. cal.	\$ 4.00	\$ 3.50
1 1/2 to 2 in. cal.	6.00	5.00
2 to 2 1/2 in. cal.	7.00	6.00
2 1/2 to 3 in. cal.	9.00	8.00
3 to 4 in. cal.	12.00	10.00

CLUMP BIRCH		
	Per 10	Per 100
<i>Paper Birch</i>		
5 to 6 ft.		
3 stems and up	\$ 30.00	
6 to 8 ft.		
3 stems and up	40.00	
<i>Gray Birch</i>		
4 to 6 ft.		
3 to 6 stems	20.00	\$150.00
6 to 8 ft.		
3 to 6 stems	35.00	250.00

PAPER BIRCH		
	Per 100	Per 1000
<i>Betula papyrifera</i>		
2 to 3 ft.	\$ 3.00	\$ 70.00
3 to 4 ft.	25.00	200.00
4 to 6 ft.	40.00	300.00
6 to 8 ft.	100.00	

LINING-OUT STOCK		
<i>Acer saccharum</i>		
2 to 3 ft.	12.00	100.00
3 to 4 ft.	30.00	250.00
4 to 6 ft.	60.00	500.00
<i>Clethra alnifolia</i>		
6 to 18 in.	7.00	60.00
<i>Ilex verticillata</i>		
1 to 2 ft.	7.00	60.00
<i>Syringa vulgaris</i>		
1 to 2 ft.	7.00	60.00
<i>Viburnum acerifolium</i>		
6 to 18 in.	8.00	70.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.	8.00	70.00
<i>Viburnum dentatum</i>		
1 to 2 ft.	8.00	70.00

HEMLOCK TRANSPLANTS		
<i>Tsuga canadensis</i>		
4 to 8 in., trans., 2-2	15.00	120.00
8 to 12 in., trans., 2-2	20.00	180.00

HEMLOCK SEEDLINGS		
<i>Tsuga canadensis</i>		
4 to 8 in.	4.00	20.00
8 to 12 in.	6.00	50.00
12 to 18 in.	8.00	70.00

All stock is first-quality collected material except as otherwise noted. See the September 15 issue, pages 16, 17 and 18 for complete wholesale list for Fall, 1953, and Spring, 1954, of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

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# LINING-OUT STOCK

CODE: C.—cuttings; S.—seedlings—T.—transplanted in 28-inch rows, well-spaced for maximum growth.

## SHRUBS

Berberis thunbergii	Per 10	Per 100	Per 1000
(Japanese Barberry).			
1000 2-yr. S.	5 to 9 ins.	\$0.08½	\$0.06½ \$0.05
1000 2-yr. S.	9 to 12 ins.	.10	.08 .06
<b>Chaenomeles japonica</b>			
(Japanese Flowering Quince).			
5000 1-yr. S.	4 to 6 ins.	.02	.01½
3000 2-yr. S.	6 to 9 ins.	.02½	.02
2000 2-yr. S.	9 to 12 ins.	.07	.05 .04
2000 2-yr. S.	12 to 15 ins.	.10	.08½ .07½
<b>Chaenomeles lagenaria</b>			
(Appleblossom Flowering Quince).			
100 Grafts.	9 to 12 ins.	.20	.17½
<b>Chaenomeles lagenaria</b>			
(Scarlet Flowering Quince).			
350 Grafts.	9 to 12 ins.	.20	.17½
<b>Cotoneaster acutifolia</b>			
(Peking Cotoneaster).			
1000 1-yr. S.	3 to 6 ins.	.11	.08 .06
<b>Cotoneaster divaricata</b>			
(Spreading Cotoneaster).			
2000 1-yr. S.	4 to 9 ins.	.14	.10 .08
1000 2-yr. S.	6 to 9 ins.	.30	.22 .17
1000 2-yr. S.	9 to 12 ins.	.40	.30 .25
1000 2-yr. S.	12 to 15 ins.	.50	.40 .35
<b>Cotoneaster foveolata</b>			
(Glossy Cotoneaster).			
500 1-yr. S.	4 to 9 ins.	.14	.10
800 2-yr. S.	9 to 12 ins.	.40	.30 .25
<b>Cotoneaster horizontalis wilsoni</b>			
(Wilson Cotoneaster).			
1000 1-yr. S.	4 to 9 ins.	.14	.10 .08
<b>Cotoneaster multiflora</b>			
500 1-yr. S.	4 to 9 ins.	.14	.10 .08
<b>Cotoneaster racemiflora songorica</b>			
(Sungari Rock Spray Cotoneaster).			
3000 1-yr. S.	4 to 9 ins.	.14	.10 .08
<b>Deutzia gracilis</b>			
(Slender Deutzia).			
200 1-yr. C.	12 to 15 ins.	.20	.15 .12
800 2-yr. C.	6 to 9 ins.	.24	.19 .16
800 2-yr. C.	9 to 12 ins.	.30	.25 .22
<b>Deutzia gracilis rosea</b>			
(Pink Slender Deutzia).			
1000 1-yr. C.	12 to 15 ins.	.20	.15 .12
300 2-yr. C.	6 to 9 ins.	.24	.19 .16
800 2-yr. C.	9 to 12 ins.	.30	.25 .22
<b>Deutzia lemoinei</b>			
(Lemoine Deutzia).			
500 2-yr. C.	12 to 15 ins.	.30	.25 .22
300 2-yr. C.	6 to 9 ins.	.38	.32
15 to 18 ins.	.38	.32	
<b>Elaeagnus angustifolia</b>			
(Russian Olive).			
500 2-yr. C.	15 to 18 ins.	.18	.14 .10
<b>Elaeagnus umbellata</b>			
(Autumn Elaeagnus).			
1000 1-yr. S.	12 to 15 ins.	.08	.06
<b>Euonymus alatus</b>			
(Winged Euonymus).			
500 1-yr. S.	6 to 9 ins.	.11	.07½
1500 1-yr. C.	6 to 9 ins.	.20	.17 .14
1000 2-yr. C.	6 to 9 ins.	.30	.24 .20
<b>Euonymus alatus compactus</b>			
(Dwarf Burningbush).			
1500 1-yr. C.	6 to 9 ins.	.20	.17 .14
1000 2-yr. C.	6 to 9 ins.	.30	.24 .20
<b>Euonymus atropurpureus</b>			
(Eastern Wahoo).			
1500 1-yr. S.	12 to 15 ins.	.11	.07½
<b>Euonymus europaeus</b>			
(European Euonymus).			
2000 1-yr. S.	6 to 9 ins.	.11	.07½
1000 2-yr. S.	6 to 9 ins.	.19	.15 .12
<b>Kolkwitzia amabilis</b>			
(Beautybush).			
300 2-yr. S.	6 to 9 ins.	.25	.20
<b>Ligustrum ibota</b>			
(Ibota Privet).			
2900 1-yr. S.	6 to 9 ins.	.02	.01½
3000 1-yr. S.	9 to 12 ins.	.03	.02½
<b>Ligustrum regelianum</b>			
(Regel's Border Privet).			
1000 1-yr. S.	6 to 9 ins.	.12	.10 .08
2000 1-yr. C.	9 to 12 ins.	.21	.17 .14
<b>Lonicera maackii rubescens</b>			
(Pink Amur Honeysuckle).			
1500 1-yr. S.	6 to 9 ins.	.14	.10 .07
<b>Myrica pensylvanica</b>			
(Northern Bayberry).			
1000 1-yr. S.	6 to 9 ins.	.14	.10 .07

## SHRUBS

Rhamnus No. 11375	Per 10	Per 100	Per 1000
(Buckthorn).			
Very beautiful new introduction.			
2000 1-yr. S.	6 to 9 ins.	\$0.09	\$0.06 \$0.04
1600 2-yr. S.	6 to 9 ins.	.12	.09½ .07
1500 2-yr. S.	9 to 12 ins.	.15	.12 .10
<b>Rhamnus cathartica</b>			
(Common Buckthorn).			
2000 1-yr. S.	6 to 9 ins.	.07½	.05 .03
<b>Rhamnus frangula</b>			
(Glossy Buckthorn).			
2000 1-yr. S.	6 to 9 ins.	.08	.05½ .03½
<b>Rhamnus saxatilis</b>			
(Rock Buckthorn).			
2000 1-yr. S.	6 to 9 ins.	.09	.06 .04
500 2-yr. S.	6 to 12 ins.	.13	.10 .08
1000 2-yr. S.	12 to 15 ins.	.16	.14 .11
<b>Rhodotypos scandens</b>			
(Black Jetbead).			
2000 1-yr. S.	6 to 9 ins.	.12	.09½ .07
2000 1-yr. S.	9 to 12 ins.	.16	.14 .11
400 2-yr. S.	9 to 12 ins.	.24	.18 .15
<b>Ribes alpinum</b>			
(Alpine Currant).			
1500 1-yr. S.	6 to 9 ins.	.20	.17 .15
<b>Rosa wichurana</b>			
(Wichura Rose).			
1000 1-yr. S.	6 to 9 ins.	.10	.07½ .06
1000 1-yr. S.	9 to 12 ins.	.13	.10 .08
1000 1-yr. S.	12 to 18 ins.	.18	.15 .12
<b>Salix arctica</b>			
(Arctic Blueleaf Willow).			
1000 1-yr. C.	6 to 9 ins.	.18	.15 .12
<b>Spiraea arguta</b>			
(Garland Spiraea).			
1500 1-yr. C.	6 to 9 ins.	.19	.16 .13
<b>Spiraea bumalda</b>			
(Anthony Waterer Spiraea).			
1000 1-yr. C.	6 to 9 ins.	.20	.17 .14
<b>Spiraea bumalda</b>			
(Froebel Spiraea).			
1000 1-yr. C.	6 to 9 ins.	.19	.16 .13
<b>Stephanandra incisa</b>			
(Cutleaf Stephanandra).			
500 C.	6 to 9 ins.	.15	.15
<b>Symphoricarpos chenaultii</b>			
(Hancock Dwarf Coralberry).			
New Canadian introduction.			
1500 1-yr. C.	6 to 12 ins.	.25	.20 .15
<b>Syringa amurensis japonica</b>			
(Japanese Tree Lilac).			
1000 1-yr. S.	6 to 12 ins.	.14	.10 .08
<b>Syringa hybrida</b>			
6 to 12 ins.	.30	.25	
12 to 18 ins.	.40	.35	
<b>Alphonse Lavallee</b>			
double, lilac shade			
400 1-yr. grafts			
<b>President Carnot</b>			
large, double, light lilac			
blue			
400 1-yr. grafts			
<b>Charles X.</b>			
single, reddish-violet			
400 1-yr. grafts			
<b>Ellen Willmott</b>			
double, white			
250 1-yr. grafts			
<b>Hugo Koster</b>			
single, lilac shade			
400 1-yr. grafts			
<b>Jan van Tol</b>			
single, white			
250 1-yr. grafts			
<b>Jean Mace</b>			
double, lilac-pink			
400 1-yr. grafts			
<b>Marie Legraye</b>			
single, white			
400 1-yr. grafts			
<b>Michel Buchner</b>			
double, pinkish-lilac			
250 1-yr. grafts			
<b>President Greys</b>			
double, delicate blue			
400 1-yr. grafts			
<b>Vestale</b>			
single, white			
250 1-yr. grafts			
<b>Syringa villosa</b>			
(Late Lilac).			
3000 1-yr. S.	6 to 12 ins.	.12	.10 .08
<b>Syringa vulgaris</b>			
(Common Lilac).			
3000 1-yr. S.	6 to 12 ins.	.12	.10 .08
<b>Viburnum lantana</b>			
(Wayfaring Tree).			
5000 1-yr. S.	4 to 8 ins.	.10	.08 .06½
<b>Viburnum opulus</b>			
(European Cranberrybush).			
2500 1-yr. S.	6 to 9 ins.	.10	.08 .06½
<b>Viburnum opulus sterile</b>			
(Snowball Viburnum).			
1000 1-yr. C.	6 to 9 ins.	.18	.14 .12

## ORNAMENTAL TREES

Acer glabrala	Per 10	Per 100	Per 1000
(Amur Maple).			
200 1-yr. S.	6 to 9 ins.	.12	.10 .08
<b>Crataegus mollis</b>			
(Downy Hawthorn).			
1000 1-yr. S.	6 to 9 ins.	.12	.10 .08
<b>Crataegus monogyna</b>			
(Singleseeded English Hawthorn).			
2000 1-yr. S.	6 to 9 ins.	.12	.10 .08
<b>Crataegus oxyacantha</b>			
(English Hawthorn).			
3000 1-yr. S.	6 to 9 ins.	.12	.10 .08
<b>Crataegus phaeopyrum</b>			
(Washington Hawthorn).			
3000 1-yr. S.	6 to 9 ins.	.15	.12 .10
<b>Koeleruteria paniculata</b>			
(Golden-rain Tree).			
500 1-yr. S.	6 to 9 ins.	.15	.10
<b>Magnolia acuminata</b>			
(Cucumber Tree Magnolia).			
500 1-yr. S.	6 to 9 ins.	.15	.10

## ORNAMENTAL TREES

Malus arnoldiana	Per 10	Per 100	Per 1000
(Arnold Crab Apple).			
500 1-yr. grafts.	9 to 12 ins.	\$0.32	\$0.25
<b>Malus atrosanguinea</b>			
(Carmine Crab Apple).			
1000 1-yr. grafts.	9 to 12 ins.	.32	.25
<b>Malus (Ferrand Cerise Crab Apple).</b>			
500 1-yr. grafts.	9 to 12 ins.	.32	.25
250 1-yr. grafts.	12 to 15 ins.	.38	.30
200 1-yr. grafts.	18 to 24 ins.	.45	.35
<b>Malus floribunda</b>			
(Japanese Flowering Crab Apple).			
1000 1-yr. grafts.	9 to 12 ins.	.32	.25
<b>Malus floribunda purpurea</b>			
500 1-yr. grafts.	6 to 9 ins.	.28	.20
<b>Malus fructu-coccinea</b>			
500 1-yr. grafts.	6 to 9 ins.	.28	.20
<b>Malus gloriosa</b>			
light pink blossom.			
1000 1-yr. grafts.	18 to 24 ins.	.45	.35
<b>Malus (Hopa Crab Apple).</b>			
1000 1-yr. grafts.	9 to 12 ins.	.32	.25
<b>Malus loensis plena</b>			
(Bechtel Crab Apple).			
1500 1-yr. grafts.	9 to 12 ins.	.32	.25
<b>Malus niedzwetkiana</b>			
(Niedzwetkiana Crab Apple).			
1000 1-yr. grafts.	9 to 12 ins.	.32	.25
<b>Malus purpurea elaeagnifolia</b>			
(Eley Purple Crab Apple).			
2000 1-yr. grafts.	6 to 9 ins.	.28	.20
<b>Malus sargentii</b>			
(Sargent Crab Apple).			
1500 1-yr. S.	6 to 9 ins.	.28	.20
<b>Malus spectabilis</b>			
(Chinese Flowering Crab Apple).			
2000 1-yr. grafts.	12 to 15 ins.	.38	.30
<b>Malus zumi calocarpa</b>			
(Calocarpa Crab Apple).			
500 1-yr. grafts.	9 to 12 ins.	.32	.25
<b>Phellodendron amurense</b>			
(Amur Cork Tree).			
2000 1-yr. S.	6 to 9 ins.	.15	.10 \$0.07½
<b>Prunus serotina</b>			
(Black Cherry).			
1000 1-yr. S.	6 to 9 ins.	.12	.08 .06
<b>Picea trifoliata</b>			
(Hop Tree).			
2000 1-yr. S.	6 to 9 ins.	.12	.08 .06
<b>Robinia pseudoacacia</b>			
(Black Locust).			
2000 1-yr. S.	6 to 12 ins.	.12	.08 .06
<b>Sorbus aucuparia</b>			
(European Mountain Ash).			
2500 1-yr. S.	6 to 12 ins.	.15	.10 .07½

## VINES AND GROUND COVERS

Ampelopsis acutifolia	Per 10	Per 100	Per 1000
(Monkshood Vine).			
1000 1-yr. S.	6 to 9 ins.	.16	.12 .08
<b>Ampelopsis maximowiczii</b>			
(heterophylla)			
(Porcelain Ivy).			
100 1-yr. S.	6 to 9 ins.	.16	.12 .08
<b>Celastrus scandens</b>			
(American Bittersweet).			
1000 2-yr. S.	9 to 12 ins.	.11	.07½ .05
<b>Euonymus fortunei carrierei</b>			
(Glossy Wintercreeper).			
1000 1-yr. C.	6 to 9 ins.	.25	.20 .18
<b>Euonymus fortunei coloratus</b>			
(Purpleleaf Wintercreeper).			
1000 1-yr. C.	6 to 9 ins.	.22	.18 .15
1000 2-yr. C.	9 to 12 ins.	.25	.20 .18
1000 2-yr. T.	12 to 15 ins.	.30	.22 .20
<b>Euonymus fortunei vegetus</b>			
(Bigleaf Wintercreeper).			
2000 1-yr. C.	6 to 9 ins.	.22	.20 .18
2000 2-yr. C.	6 to 9 ins.	.30	.27 .24
<b>Euonymus klautschovius</b>			
(Spreading Euonymus).			
1000 1-yr. C.	6 to 9 ins.	.15	.12 .10
1000 2-yr. C.	6 to 9 ins.	.22	.18 .15
1000 2-yr. C.	9 to 12 ins.	.26	.22½ .20
1000 2-yr. C.	12 to 15 ins.	.32	.28 .25
<b>Polygonum Reynoutri</b>			
(Dwarf Lace Plant).			
1000 1-yr. C.	6 to 9 ins.	.30	.22 .18

## EVERGREENS

Thuja orientalis	Per 10	Per 100	Per 1000
(Oriental Arborvitae).			
5000 1-yr. S.	3 to 6 ins.	.05	.03 .02

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MONROE, MICH.

ILGENFRITZ NURSERIES, INC.



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and on the West Coast

### Ideal for Potting PATENTED ROSES

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Pat. No. 455—Red  
Retail \$2.25 each

Diamond Jubilee  
Pat. No. 824—Yellow  
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Pat. No. 172—Yellow  
Retail \$1.75 each

Enchantment  
Pat. No. 737—Pink  
Retail \$2.00 each

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Pat. No. 792—Red and Yellow  
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Retail \$2.50 each

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Pat. No. 1028—Apricot  
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K. T. Marshall  
Pat. No. 607—Pink  
Retail \$1.75 each

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Pat. No. 385—Yellow  
Retail \$2.00 each

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Pat. No. 537—Pink  
Retail \$1.75 each

McGredy's Sunset  
Pat. No. 317—Yellow  
Retail \$1.75 each

Mirandy  
Pat. No. 632—Red  
Retail \$2.25 each

New Yorker  
Pat. No. 832—Red  
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Pat. No. 591—Yellow and Pink  
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### PATENTED ROSE PRICES—2-yr., No. 1

Retail	Each	Each	Each	Each
	1 to 9	10 to 19	20 to 99	100 to 249
\$2.75	\$1.75	\$1.50	\$1.37½	\$1.30
2.50	1.40	1.40	1.25	1.20
2.25	1.40	1.25	1.12½	1.05
2.00	1.25	1.10	1.00	.95
1.75	1.15	1.00	.87½	.80
1.50	1.00	.90	.75	.70

2-yr., No. 1½'s at 20% less than No. 1 price.

### NONPATENTED ROSES

#### HYBRID TEAS

Ami Quinard—Red

Autumn—Orange

Caledonia—White

Christopher Stone—Red

Condesa de Sagato—Two-tone

Edith Nellie Perkins—Two-tone

Editor McFarland—Pink

Etoile de Hollande—Red

Grenoble—Red

Grass on Teplitz—Red

Hinrich Gaede—Orange

Joanna Hill—Yellow

K. A. Victoria—White

Lady Ashdown—Pink

Lolita—White

Luxembourg—Yellow

McGredy's Ivory—White

McGredy's Scarlet—Red

McGredy's Yellow—Yellow

Mevrouw G. A. van Rossem

—Yellow and Pink

Mrs. E. P. Thom—Yellow

Mrs. Henry Bowles—Pink

Poinsettia—Red

Pres. Herbert Hoover

—Two-tone

Pres. Macia—Pink

Radiance Pink—Pink

Radiance Red—Red

Roslyn—Yellow

Sosur Therese—Yellow

Talisman—Two-tone

Yellow Condesa—Yellow

Yellow Talisman—Yellow

#### HYBRID PERPETUAL AND

#### RUGOSAS

Austrian Copper—Orange

F. J. Grootendorst—Red

F. K. Druschki—White

George Arends—Pink

Hansa—Red

Harison's Yellow—Yellow

Hugh Dickson—Red

Magna Charta—Pink

Paul Neyron—Pink

Persian Yellow—Yellow

#### CLIMBERS

Cli. American Beauty—Red

New Dawn—Pink

Paul's Scarlet—Red

Primrose—Yellow

#### FLORIBUNDAS AND POLYANTHAS

Chateau—Red

Golden Salmon—Orange

Ideal—Red

Lady Reading

Red Ripples—Red

### NONPATENTED ROSE PRICES

	Per 10	Per 100	Per 1000
2-yr., No. 1	\$6.50	\$60.00	\$550.00
2-yr., No. 1½	5.00	47.50	425.00

REPRESENTED BY: E. D. ROBINSON, NELSON TURNELL

Also a general line of other nursery stock.

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Seedlings and Transplants

For Spring and Fall, 1954

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PEARCE SEED COMPANY

Dept. N MOORESTOWN, N. J.

of nursery stock is well-established. it will grow about as well in sod, maybe even a little better, so long as the soil is fertile and kept well-fed. Some plants, like boxwood, will do even better, because they do not like their shallow roots disturbed. The real truth of the matter is that the young plants, newly transplanted, just must be kept cultivated for the first two years. If they are not, their relative slowness in becoming established gives the sod too much of a start.

Remember when it was the fashion to sow oats in among the rows as a cover crop about 15 years ago? We did it, too, until a mild winter failed to kill the oats. They overgrew and killed many little boxwoods.

Another idea to reduce the need for cultivation is the use of weed killers, especially with certain farm crops. Already this idea is not turning out as well as expected, because soil that is not stirred dries out, especially after heavy rains, in such manner that the moisture is not preserved as it is under a dust mulch. If you do not agree with this, ask your employee who has to go out and dig a balled plant after a dry spell. It does make a difference.

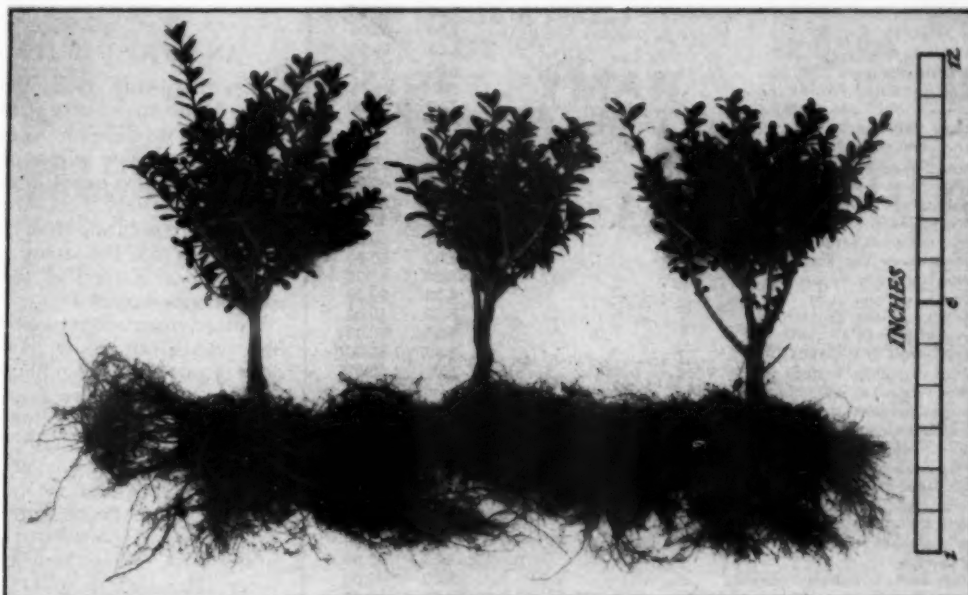
The organic gardening fad is also having its day. I have expressed myself on this subject before and will not comment on its merits or demerits. The organic gardening enthusiast tells us that frequent cultivation burns out the humus and that we leave our soil worse than it was before cultivating. But soil is a dynamic and ever-changing substance. We do not try to keep it in a certain state, but use up the humus and then rebuild it. Much of the trouble here lies in the economic impossibility of the idea. Not only would our nursery stock cost too much to grow, but, if the idea were applied to agriculture to the exclusion of any other method, a lot of people would starve.

Still another idea in soil cultivation has been the development and use of rotary tillers. These tackle the problem from the other extreme. When World War II ended, the assumption was that the rotary tiller would do away with the plow, but after a few years it, too, has settled down into its well-established niche, mainly in the nursery end of horticulture. It is an admirable tool in preparing seed and planting beds, but the machinery is too complicated for agriculture and makes the soil too light and fluffy to be used to the best advantage.

The latest fad now is geese, which, I understand, are being used success-

# South's largest stock!

## ILEX ROTUNDIFOLIA



These Rotundifolia liners are compact and well shaped. Note the sturdy root system.

### PRICES

#### B&B Stocks\*

##### Sheared Specimens

	Per 10	Per 100
8 to 10 inches.....	\$ 6.40	\$ 60.00
10 to 12 inches.....	8.80	80.00
12 to 15 inches.....	12.50	100.00
15 to 18 inches.....	13.50	120.00
18 to 24 inches.....	17.50	160.00

#### Liners

##### Outside Bed Grown

(Prices include packing)

	Per 100	Per 1000
4 to 6 inches.....	\$10.00	\$ 90.00
6 to 8 inches.....	12.50	115.00
8 to 12 inches.....	15.00	140.00

#### Liners

##### Field-Grown

(Packing will be charged at cost)

	Per 100	Per 1000
6 to 8 inches.....	\$25.00	\$200.00
8 to 10 inches.....	35.00	300.00
10 to 12 inches.....	45.00	400.00

F.O.B. Semmes, Ala.

\*Information on truck or trailer shipments on request.

Here's an opportunity you can't afford to miss . . . an opportunity to replenish your holly stocks now. At present we can supply you from one of the largest plantings of Ilex (particularly Rotundifolia) in the entire south. All these plants are of excellent quality—have good color . . . an excellent root system . . . and are well branched.

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Grafts are normally ready for shipment after April 15th. Since there is a possibility of damage by late spring frost, kindly give a shipping date when you feel it is safe to plant without frost injury.

	Per 10	Per 100
<i>Acer palmatum atropurpureum</i> .....	\$7.50	\$65.00
<i>Acer palmatum dissectum atropurpureum</i> .....	7.50	65.00
<i>Cedrus atlantica glauca</i> .....	7.50	65.00
<i>Cornus florida alba plena</i> .....	6.00	50.00
<i>Cornus florida rubra</i> .....	6.00	50.00
<i>Cornus florida rubra Prosser</i> .....	7.50	65.00
<i>Cryptomeria lobbi compacta</i> .....	7.00	60.00
<i>Ilex opaca femina</i> .....	7.00	60.00
<i>Juniperus chinensis columnaris glauca</i> .....	6.00	50.00
<i>Juniperus chinensis columnaris viridis</i> .....	6.00	50.00
<i>Juniperus chinensis keteleeri</i> .....	6.00	50.00
<i>Juniperus chinensis neoboriensis</i> .....	6.00	50.00
<i>Juniperus chinensis sargentii</i> .....	6.00	50.00
<i>Juniperus chinensis sargentii glauca</i> .....	6.00	50.00
<i>Juniperus sabina Von Ehron</i> .....	6.00	50.00
<i>Juniperus squamata meyeri</i> .....	6.00	50.00
<i>Juniperus virginiana burki</i> .....	6.00	50.00
<i>Juniperus virginiana canaerti</i> .....	6.00	50.00
<i>Juniperus virginiana elegantissima</i> .....	6.00	50.00
<i>Juniperus virginiana glauca</i> .....	6.00	50.00
<i>Juniperus virginiana kosteriana</i> .....	6.00	50.00
<i>Juniperus virginiana pyramidiformis hillii</i> .....	6.00	50.00
<i>Juniperus virginiana schottii</i> .....	6.00	50.00
<i>Magnolia lennei</i> .....	7.50	65.00
<i>Magnolia rustica rubra</i> .....	7.50	65.00
<i>Magnolia soulangeana</i> .....	7.00	60.00
<i>Magnolia soulangeana nigra</i> .....	7.00	60.00
<i>Magnolia stellata</i> .....	7.00	60.00
<i>Magnolia stellata rosea</i> .....	7.00	60.00
<i>Magnolia stellata rubra</i> .....	7.50	65.00
* <i>Pinus cembra</i> .....	6.50	55.00
<i>Thuja occidentalis douglasii spiralis</i> .....	5.00	40.00
<i>Thuja occidentalis elegantissima</i> .....	5.00	40.00
<i>Thuja occidentalis lutea Mary Corey</i> .....	5.00	40.00
<i>Thuja occidentalis lutea Geo. Peabody</i> .....	5.00	40.00
<i>Thuja occidentalis nigra</i> .....	5.00	40.00
<i>Thuja occidentalis pyramidalis</i> .....	5.00	40.00
<i>Thuja occidentalis rosenthalii</i> .....	5.00	40.00
<i>Thuja occidentalis wareana sibirica</i> .....	5.00	40.00
<i>Thuja orientalis aurea nana</i> .....	5.00	40.00
<i>Thuja orientalis conspicua</i> .....	5.00	40.00
<i>Thuja orientalis elegantissima</i> .....	5.00	40.00
<i>Tsuga canadensis pendula</i> .....	6.00	50.00

\*Five needle Pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee.

Prices are F.O.B. Mountain View, N. J.; packing additional, at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25% of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

## HESS' NURSERIES MOUNTAIN VIEW, N. J.

## NEW ENGLAND NURSERYMEN'S ASSOCIATION WINTER MEETING

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*A place to meet nurserymen from all New England*

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ERWIN W. WHITHAM, Sec'y.,  
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fully for certain nursery crops. The limitations have not yet shown up, but it is pretty obvious it will still be necessary to stir the soil.

The answer to all these innovations would seem to be to keep your eyes and ears open to all new suggestions, to adopt them where possible but not to go overboard in your enthusiasm.

E. S. H.

### AN UNJUST CRITICISM

One frequently hears the remark that landscape nurserymen really should not do designing because they are only intent on selling plants and that their desire to sell plants influences their efforts. This certainly can be no more accurate than a counter-accusation that the architect or interior decorator specifies material to produce the largest fee.

Nurserymen are interested in selling plants, but many have such a love of plants that it influences them in the opposite direction. I often kidded my father for actually hating to part with a particularly attractive plant or to start on a new bed or row of plants that looked so nice growing there. To be truthful, nurserymen have often been correctly accused of being unworldly and more interested in handling plants than earning a dollar.

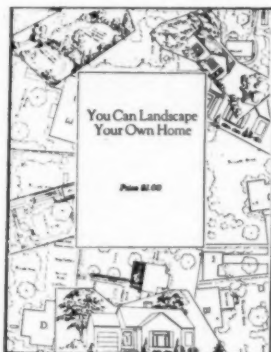
My own example has disproved an allied criticism that we grow the easy and cheap. We grow a good many items that are unusual. In fact I wrote an article in this magazine some time ago about some of those plants not often found. To mention just a couple, we have had so many transplanting losses when selling *Cedrus atlantica* and *Libocedrus decurrens* that neither we nor the customer receives much satisfaction from them. They are only for the connoisseurs.

From still another angle, if a nursery has been in one section quite a long time, the list is more than likely to include mostly plants that have been well tested and will give the most satisfaction. The exotic, the temperamental, the short-lived, and those susceptible to diseases have all been passed over.

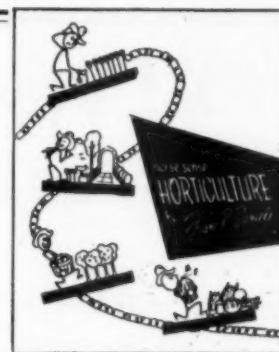
And, of course, the final answer to the criticism is that we, as well as any other workmen, have our pride in work well done. That is not a characteristic of but one sector of society. It is the mark of any craftsman.

E. S. H.

C. O. SMITH has opened a self-service nursery at Wichita Falls, Tex.



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#### THE AUTHOR'S BACKGROUND

For 44 years the author, Franc P. Daniels, Sr., has been a horticulturist, growing and selling plants and teaching and preaching the gospel of better horticulture. For 41 years he has been the owner and operator of The Daniels Nursery (A.A.N., Minn. N.A., and Twin City N.A.), one of the largest nurseries and landscape organizations in the Minneapolis area. For 23 years of that time he taught winter courses in horticulture at the University of Minnesota Farm School. He has been constantly active in horticultural organizations of various sorts, including 19 years of "presidenting" of state horticultural societies, county agricultural societies and fruit growers association. All through these years he has been in constant contact with thousands of homeowners, discussing their planting and growing problems with them. ALL BY WAY OF SAYING that we think Mr. Daniels knows just what Mr. Average Homeowner wants and needs to know about growing and caring for his own plants and knows how to tell him. IT IS THIS KIND OF INFORMATION THAT MR. DANIELS HAS WRITTEN INTO THESE TWO BOOKS.

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	Per 1000
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Scotch Pine, 3-yr. transplants, (2-1), 4 to 8 in.....	55.00
Scotch Pine, 4-yr. transplants, (2-2), 8 to 12 in.....	45.00
Norway Spruce, 3-yr. transplants, (2-1), 2 to 5 in.....	50.00
Norway Spruce, 4-yr. transplants, (2-2), 3 to 7 in.....	55.00
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	Per 100	Per 1000
2-yr., 6 to 9 ins.....	\$ 5.50	\$ 45.00
2-yr., 18 to 24 ins.....	14.00	130.00

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- Root-Thru Plant Pots

## COVER ILLUSTRATION

### Juniperus Virginiana Canaerti

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The Canaert red cedar has a compact pyramidal form and attains a height of 15 to 20 feet or more at maturity. The foliage is dark green, especially on the inner parts of the plant. The foliage on the wide-spreading branchlets is often a much lighter green.

*Juniperus virginiana* is native to the territory extending from Canada to Florida and west to the Rocky mountains. The Canaert variety will grow in the same territory to which the species is native. The fruits are comparatively small, bluish, bloomy and usually produced in considerable quantity.

The Canaert red cedar does well in a variety of soils and it is not particular as to its reaction. It should be planted in sunny situations. It requires staking the first few years after grafting and considerable pruning in order to develop a good, upright, compact plant. It is subject to the insects and diseases common to the red cedar, such as red spider mite, bagworms, cedar apple rust and juniper blight, but no more so than other common varieties.

*Juniperus virginiana canaerti* will continue to be used as a narrow, upright evergreen for screen, border, foundation and specimen plantings.

L. C. C.

## ROUGE VALLEY ELECTS

Kenneth Meadows, of the Crater Greenhouse, Medford, Ore., was re-elected president of the Rouge Valley Nurserymen and Growers' Association of Oregon at a December meeting of the group. J. Vernon Marshall, of Marshall Nursery & Florist, Medford, was re-elected secretary-treasurer. Other officers were Elwood Stansfield, vice-president, and Ruth Walden, sergeant at arms.

L. C. HOUSE & SONS WHOLESALE NURSERIES recently held an open house to celebrate the opening of a new, large lot called House's Nursery No. 2, Dallas, Tex.

SINCE the death of W. C. Harris, the Harris Gardens, at Enterprise, Kan., are being offered for sale.

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A selection from our catalog:

**AMELANCHIER** botryapium, *A. canadensis* and *A. laevis*, 2-yr., T.

**AMPELOPSIS**, 2-yr., T.

**AUCUBA**, 2-yr., C., T.

**BETULA** youngi, *B. tristis*, *B. laciniata*, *B. viscosa*, *B. pyramidalis*, *B. medwediewi*, *B. maximowicziana*, *B. purpurea* and *B. dalecarlica*.

**BIGNONIA** radicans, Mme. Galen, 1-yr., graft, 2 to 3 ft.

**BUDDLEIA** Ile de France, *B. Orchid Beauty*, *B. Royal Red*, *B. Empire Blue*, *B. Peace*, *B. White Bouquet*, *B. Charming*, *B. Fortune* and Ilstead variety, *The Cardinal*, 1 and 2-yr., T., C.

**CALLICARPA** giraldi, 1-yr., C., pot-grown.

**CALLICARPA** mollis and *C. koreana*, 1-yr., T., C.

**CARPINUS** betulus pyramidalis, 5 to 6 ft. and 6 to 8 ft., also 1-yr., grafts.

**CEANOTHUS** Gloire de Versailles, *C. Marie Simon*, *C. Lucie Simon*, *C. Topas*, *C. Indigo* and *C. Henri Defosse*, 1-yr., T., C.

**CHAENOMELES** Crimson and Gold, *C. Dwarf Poppy*, *C. Pink Beauty*, *C. Juliet*, *C. Rowalane* sdg. a.s.o., 1-yr., T., C.

**CLEMATIS**, 2-yr., T.

**CORNUS** kousa, *C. kousa chinensis*, *C. florida* and *C. florida rubra*, 1-yr., T., C.

**COTONEASTER** salicifolia floccosa, true, from cuttings, 2-yr., T., 1 to 3 ft.

**CRYPTOMERIA**, in different good varieties, 1-yr., grafts.

**DAVIDIA** involucrata, true, from cuttings, 1-yr., grafts.

**FAGUS** sylvatica atropurpurea major, 1-yr., grafts.

**HYPERICUM** grandiflorum, *H. moserianum* and *H. superbum*, 2-yr., T.

**KALMIA** latifolia, 2-yr., T., C.

**KOLKWITZIA**, 1 and 2-yr., T., C.

**LONICERA** graciosa (new), excellent hedges like myrtle, 1-yr., T., C.

**MAGNOLIA**, different varieties, 2 to 3 ft., 1-yr., T.

**PLATANUS**, 2 to 3 ft., 4 to 6 ft. and 6 to 8 ft.

**POLYGONUM** baldschuanicum and *P. auberti*, 1-yr., grafts, 6 to 8 ft.

**POTENTILLA**, the best and newest varieties, 1 and 2-yr., T., C.

**PYRACANTHA** (True Firethorn), true, from cuttings, *P. Sunberry* (new), *P. Orange Princess*, *P. Laland* and *P. Kasan*, 1 and 2-yr., T., C., pot-grown.

**RHODODENDRON**, hardy varieties, 1-yr., grafts, excellent quality.

**SPIRAEA** Anthony Waterer and other good varieties, 1 and 2-yr., from cuttings, T.

**SYRINGA** in the world's best assortment, 2-yr., grafts.

**TAXUS** in all good varieties, 1 and 2-yr., grafts, strong.

**VIBURNUM** carlesi, *V. buddleifolium*, *V. burkwoodi*, *V. juddi* and *V. carlocephalum*, 1 and 2-yr., grafts, C.

**WEIGELA** Eva Rathke, *W. Newport Red* and *W. Bristol Ruby*, 1 and 2-yr., T., C.

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# Coming Events



## MEETING CALENDAR

January 18 and 19, Washington State Nurserymen's Association, State College of Washington, Pullman, Wash.

January 18 and 19, New York State Arborists' Association, Statler hall, Cornell University, Ithaca, N. Y.

January 18 to 20, short course for arborists, landscape gardeners and nurserymen, sponsored by the department of horticulture, Ohio State University, at Neil House, Columbus, O.

January 19, Massachusetts Nurserymen's Association, Hotel Kenmore, Boston, Mass.

January 19 to 21, Indiana Association of Nurserymen, Purdue University, Lafayette, Ind.

January 20 and 21, 2-day school for nurserymen given by Long Island Agricultural and Technical Institute, Knapp Hall lounge, Farmingdale, N. Y.

January 20 to 22, Ohio Nurserymen's Association, Neil House, Columbus, O.

January 21 and 22, Indiana Arborists' Association, Purdue University, Lafayette, Ind.

January 22, winter meeting of the Western New York Nurserymen's Association, Sheraton hotel, Rochester, N. Y.

January 24 to 26, Virginia Nurserymen's Association, Inc., John Marshall hotel, Richmond, Va.

January 25, short course for nurserymen given by the University of Delaware, Agricultural Hall, University of Delaware, Newark, Del.

January 26 and 27, Kentucky Nurserymen's Association, Lafayette hotel, Lexington, Ky.

January 27 and 28, short course for nurserymen given by the Connecticut Nurserymen's Association in cooperation with the department of plant sciences of the University of Connecticut, at the University of Connecticut, Storrs, Conn.

January 27 and 28, Oregon Association of Nurserymen, Multnomah hotel, Portland, Ore.

January 27 to 29, Michigan Association of Nurserymen, Hotel Statler, Detroit, Mich.

January 28 and 29, New Jersey Association of Nurserymen, Chalfonte-Haddon Hall hotel, Atlantic City, N. J.

January 31 to February 2, Tennessee Nurserymen's Association, Patton hotel, Chattanooga, Tenn.

February 2 to 4, New England Nurserymen's Association, Hotel Kenmore, Boston, Mass.

February 3 and 4, Pennsylvania Nurserymen's Association, Warwick hotel, Philadelphia, Pa.

February 4 and 5, West Virginia Nurserymen's Association, Ruffner hotel, Charleston, W. Va.

February 8 and 9, National Arborist Association, Statler hotel, Washington, D. C.

February 16 to 18, Pennsylvania nurseryman's conference, sponsored by Pennsylvania State College, State College, Pa.

February 17 to 19, Midwestern chapter of the National Shade Tree Conference, Hotel La Salle, Chicago.

## NEW ENGLAND PROGRAM

Unusual events will spark the meeting of the New England Nurserymen's Association on February 2 to 4, at the Hotel Kenmore, Boston, Mass. A debate on the advisability of guaranteeing the life of nursery

stock and an address by Dr. Howard Rollins on the agriculture and people of Lebanon are two of the scheduled events. The debaters will be Milford Lawrence, of H. V. Lawrence, Inc., Falmouth, Mass., and Seth L. Kelsey, of Harlan P. Kelsey, Inc., East Boxford, Mass.

First on the agenda Tuesday, February 2, will be a luncheon talk by John Siebenthaler, president of the American Association of Nurserymen. After lunch, the convention will be officially called to order, and Chester E. Hogan, president of the New England association, will make his annual address and call for reports of other officers and of committees.

Wednesday has been set aside for an educational program, with registrations, exhibits and talks designed to benefit nurserymen and their employees. Among the outstanding speakers scheduled to address the meeting Wednesday are Howard Taylor, president of Rosedale Nurseries and a past president of the American Association of Nursery-

We pause at this time to extend our appreciation and the Season's Greetings to you and yours, and to wish you health, good cheer and prosperity throughout 1954.

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6 to 8 ins., T. .15c. 8 to 10 ins., T. .20c.

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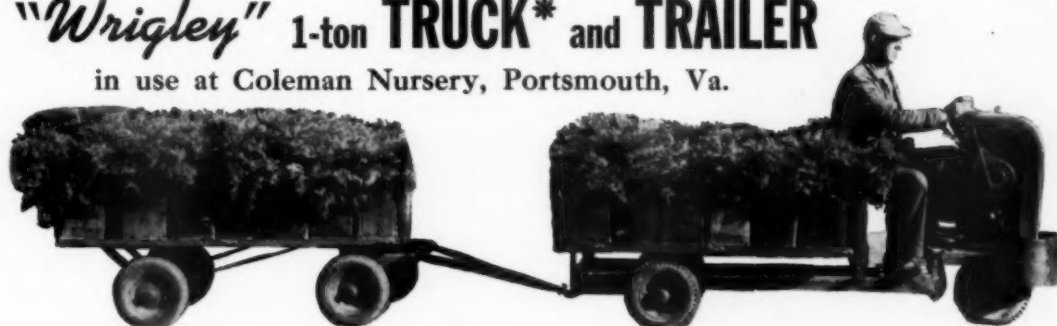
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Hex Crenata, 2-yr., X . . . \$18.00 150.00

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Engine unit and driving wheel turn 360 degrees for easy handling.

Body: Sturdy steel frame. Floor only 18 ins. high. Sizes: 5 ft. 3 ins. x 3 ft. 4 ins. 12-in. hinged sides.

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Body: 6-ft. x 3-ft. 4-in. flat bed. Loading capacity 2240 lbs. 12-in. hinged and detachable sides and tailboard.

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	Per 100	Per 1000
Cotoneaster Dielsiana, 1-yr., S., 8 to 15 ins. ....	\$10.00	\$ 90.00
Cotoneaster Horizontalis, 1-yr., S., 4 to 6 ins., br. . .	15.00	....
Cotoneaster Horizontalis, 2-yr., T., 8 to 12 ins. ....	50.00	....
Cotoneaster Praecox, 1-yr., S., 4 to 8 ins., br. ....	25.00	225.00
Cotoneaster Praecox, 2-yr., T., 8 to 12 ins. ....	50.00	....

### Cotoneaster Multiflora

Strong, 2-yr. grafts, true to name. 2 to 3 ft.

\$75.00 per 100

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American Holly 6 to 12 ins., transplants. ....	\$27.50
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men, whose subject will be landscaping trends in suburban New York, and Dr. Herbert Lunt, of the Connecticut agricultural experiment station, who will report on new forms of organic matter in soil and the yellowing of yew tips.

A radio advertising representative will discuss modern advertising in horticulture on the last day of the meeting. Also scheduled for the last day are elections of new officers.

### SOMETHING NEW!

The division of agricultural short courses of the University of Delaware, in cooperation with the school of agriculture, has announced its first annual nurserymen's short course, to be held January 25, at 10 a. m., at Agricultural Hall, University of Delaware, Newark, Del.

Dr. John C. Creech, director of the Plant Introduction Gardens, Glenn Dale, Md., will speak on "Propagation of Ornamental Plants." The afternoon program will feature Raymond P. Korbobo, of Rutgers University, who will talk on landscaping the home grounds. Time is allowed for discussions of these and related topics.

### VIRGINIA PLANS DISPLAYS, SPEAKERS FOR ANNUAL MEET

Methods of meeting present-day problems will be stressed at the Virginia Nurserymen's Association convention which will open Sunday afternoon, January 24, at the Hotel John Marshall, at Richmond, Va.

The meeting will be highlighted by speakers and panel leaders. Prof. Hubert B. Owens, chairman of the school of landscape architecture, University of Georgia, will speak on "Modern Trends in Landscape Design" and lead the round-table discussions on landscape problems and opportunities. W. B. Higgs, of Fairfax, Va., will speak and lead the discussions on selling. Prof. A. G. Smith, Jr., associate horticulturist, Virginia Polytechnic Institute, will discuss the need for "Better Home Ground Planning," and Henk van de Werken, his assistant, will demonstrate home ground planning by the use of velvet on a blackboard.

Among the non-technical speakers will be the lieutenant governor of Virginia, A. E. S. Stephens, who will talk on "Taxes and the State Government."

Horticultural and nursery and garden supply shows will be open to the trade and the public from noon Sunday throughout the convention. These shows have become an

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10 to 15 ins. ....	\$10.00
<b>Hydrangea P. G.,</b>	
1-yr., layers .....	8.00
<b>Platanus Orientalis,</b>	
6 to 12 ins. ....	8.50
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2 to 3 ft. ....	16.00
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<b>Quercus Palustris,</b>	
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2-yr. ....	16.50
<b>Quercus Rubra,</b>	
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2-yr. ....	12.50
<b>Salix Babylonica,</b>	
2 to 3 ft. ....	9.50
3 to 4 ft. ....	12.50
4 to 5 ft. ....	17.50
5 to 6 ft. ....	22.50
6 to 7 ft. ....	27.50

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The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates. Strong, well-rooted, 1-yr. plants: \$3.75 per 100; \$35.00 per 1000; \$32.50 per 1000 for 5000 or more in one shipment. Available for prompt shipment—late March through November. Shipments anywhere, including Canada.

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**AMERICAN NURSERYMAN**  
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annual event of the Virginia winter convention. This year commercial exhibits sponsored by nurseries and nursery and garden supply firms will be supplemented by other educational exhibits prepared and staffed by clubs, associations, government agencies and Virginia Polytechnic Institute's department of horticulture. The main lobby and the Virginia room of the Hotel John Marshall will be given over to the show.

Registration will start Sunday afternoon prior to a fellowship hour at 6 p. m. Dinner and informal entertainment will follow the fellowship hour.

The convention will be called to order on Monday, January 25, at 9:15 a. m., by President W. L. Winn, of Norfolk. Mr. Winn's presidential address will be given after the introduction of visitors and exhibitors. Committee meetings, reports and association business will be part of the program both Monday and Tuesday.

The annual banquet will be held Monday at 7 p. m. after a cocktail party. Alfred J. Serbin, air information division, Library of Congress, and an authority on Russia, will be the banquet speaker. Mr. Serbin's subject will be "The Cold War." Music and dancing will continue until midnight.

Among the speakers Tuesday will be Curtis Porterfield, administrative assistant of the American Association of Nurserymen, who will explain how the A. A. N. is helping to meet present day problems. Dr. I. C. Rich, of the department of agronomy, Virginia Polytechnic Institute, will talk on "Maintaining Soil Fertility."

A meeting of chapter 17 of the A. A. N. will be held during the convention. Election of officers will take place Tuesday morning. Installation of officers and adjournment will follow a group luncheon Tuesday afternoon.

Charles H. Kennedy, of Nokesville, Va., is chairman of the program committee, and Mrs. C. L. Otey is in charge of the ladies' activities. Moultrie H. Lanier, of Richmond, is exhibit chairman, and all Richmond nurserymen will act as a welcoming committee.

## NEW JERSEY MEETING

The annual meeting of the New Jersey Association of Nurserymen on January 28 and 29, at the Chalfonte-Haddon Hall hotel, Atlantic City, N. J., will combine diverse educational reports with pleasant social activities and the business of the

# FIELD-GROWN NURSERY STOCK—SPRING, 1954



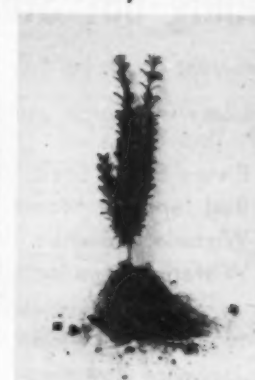
*Juniper glauca hetzi*  
12 to 15 ins.—3-yr.



*Thuja occidentalis globosa*  
2-yr., 8 to 10 ins.



*Azalea schlippenbachii*, *Rhododendron hybrid*, *Azalea mollis*  
2-yr., field, trans.



*Buxus sempervirens welleri*  
2-yr., field.

100 rate Each		100 rate Each		100 rate Each	
<i>Azalea ghent</i> (pontica), beds, 2-yr., X	\$0.25	<i>Juniper, Andorra</i> , 8 to 10 ins., 2-yr., X	.....	<i>Rhododendron catawbiense</i> , 2-yr., X, field beds	\$0.25
5 to 8 ins., 3-yr., XX, field	.45	10 to 12 ins., 3-yr., X	.45	3 to 5 ins., 2-yr., XX	.35
8 to 10 ins., 4-yr., XX, field	.65	<i>Juniperus glauca hetzi</i> , 10 to 12 ins., 2-yr., X	.35	5 to 8 ins., 3-yr., XX	.55
10 to 12 ins., 4-yr., XX, field	1.00	12 to 15 ins., 3-yr., X	.55	8 to 10 ins., 4-yr., XX	.85
<i>Azalea kaempferi</i> , beds, 2-yr., X	.25	15 to 18 ins., 4-yr., X	.70	<i>Rhododendron hybrid</i> , 2-yr., X, field beds	.35
<i>Azalea mollis</i> , beds, 2-yr., X	.18	<i>Juniper, Golden Pfitzer</i> , 6 to 8 ins., 2-yr., X	.35	5 to 8 ins., 3-yr., XX	.55
5 to 10 ins., 2-yr., X	.25	8 to 10 ins., 3-yr., XX	.45	8 to 10 ins., 4-yr., XX	.85
8 to 10 ins., 3-yr., X, br.	.45	<i>Juniper, Irish</i> , 8 to 12 ins., 2-yr., X	.35	<i>Taxus cuspidata</i> , 10 to 15 ins., 3-yr., X	.45
10 to 12 ins., 4-yr., XX, br.	.65	12 to 15 ins., 3-yr., X	.45	<i>Taxus media hicksii</i> , 6 to 8 ins., 1-yr., X	.28
12 to 15 ins., 5-yr., XX, br.	1.35	15 to 18 ins., 4-yr., XX	.55	8 to 10 ins., 2-yr., X	.35
<i>Azalea poskhanensis</i> , beds, 2-yr., X	.25	<i>Koeleria paniculata</i> (Golden-rain Tree), 2-yr., X	.12	<i>Thuja occidentalis</i> (American Arb.), 10 to 12 ins., 3-yr., X	.25
<i>Azalea schlippenbachii</i> , beds, 2-yr., X	.28	8 to 12 ins., 3-yr., X	.18	12 to 15 ins., 3-yr., XX	.35
<i>Buxus sempervirens welleri</i> , 1-yr., X	.25	12 to 18 ins., 3-yr., X	.32	15 to 18 ins., 3-yr., XX	.45
5 to 10 ins., 3-yr., X	.45	<i>Larix europaea</i> (European Larch), 6 to 10 ins., 2-yr., X	.10	<i>Thuja occ. douglasii aurea</i> (Golden Arb.), 4 to 6 ins., 1-yr., X	.25
<i>Chamaecyparis lawsoniana allumi</i> , 10 to 12 ins., 2-yr., X	.35	10 to 18 ins., 3-yr., X	.18	6 to 8 ins., 2-yr., X	.35
12 to 15 ins., 3-yr., XX	.45	<i>Larix leptolepis</i> (Jap. Larch), 10 to 18 ins., 3-yr., X	.18	8 to 10 ins., 3-yr., X	.35
15 to 18 ins., 3-yr., XX	.55	<i>Pachysandra terminalis</i> , 2-yr., X	.12	10 to 15 ins., 4-yr., XX	.45
<i>Chamaecyparis lawsoniana aurea</i> , 10 to 15 ins., 2-yr., X	.45	<i>Picea excelsa</i> (Norway Spruce), 4 to 8 ins., 2-yr., X	.10	<i>Thuja occ. elegantissima lutea</i> (Geo. Peabody Arb.), 4 to 6 ins., 1-yr., X	.25
15 to 18 ins., 3-yr., X	.55	8 to 10 ins., 3-yr., X	.15	6 to 8 ins., 2-yr., X	.30
<i>Chamaecyparis plumosa aurea</i> , 5 to 8 ins., 2-yr., X	.35	10 to 15 ins., 4-yr., XX	.20	8 to 10 ins., 3-yr., X	.35
8 to 10 ins., 3-yr., XX	.45	<i>Juniperus pfitzeriana compacta</i> (Nelson Blue Pfitzer variety) beds, 1-yr., X	.25	10 to 15 ins., 4-yr., XX	.45
10 to 15 ins., 4-yr., XX	.55	6 to 8 ins., 2-yr., X	.35	<i>Thuja occ. globosa</i> (Globe Arb.), 6 to 8 ins., 1-yr., X	.25
<i>Euonymus carrierei</i> , 8 to 10 ins., 2-yr., X	.25	<i>Picea pungens glauca</i> (Colorado Spruce), 4 to 6 ins., 3-yr., X	.15	8 to 10 ins., 2-yr., X	.35
10 to 15 ins., 3-yr., X	.35	5 to 10 ins., 4-yr., X	.20	<i>Thuja occ. pyramidalis</i> (Pyramidal Arb.), 6 to 8 ins., 1-yr., X	.30
<i>Euonymus fortunei coloratus</i> , 6 to 12 ins., 1-yr., X	.22	<i>Pieris japonica</i> , beds, 2-yr., X	.25	8 to 10 ins., 2-yr., X	.35
<i>Euonymus fortunei erectus</i> , 10 to 12 ins., 2-yr., X	.28	6 to 10 ins., 3-yr., X, field	.45	10 to 15 ins., 3-yr., XX	.45
12 to 18 ins., 3-yr., X	.35	<i>Pinus mugo</i> , 4 to 6 ins., 3-yr., X	.16	<i>Tsuga canadensis</i> (Hemlock), 6 to 8 ins., 3-yr., X	.25
<i>Euonymus patens</i> , 10 to 15 ins., 3-yr., X	.55	5 to 8 ins., 4-yr., X	.20	<i>Viburnum opulus</i> , 6 to 10 ins., 1-yr., X	.08
<i>Euonymus vegetus</i> , 8 to 10 ins., 2-yr., X	.25	<i>Pyracantha coccinea lalandi</i> , 6 to 8 ins., 2-yr., X	.25	10 to 15 ins., 2-yr., X	.12
10 to 12 ins., 3-yr., X	.35	8 to 12 ins., 2-yr., X	.32	18 to 24 ins., 3-yr., X	.18
12 to 15 ins., 3-yr., X	.45			<i>Viburnum opulus nana</i> , 2-yr., X, field	.22
<i>Ilex crenata convexa</i> (Bullata), 6 to 8 ins., 2-yr., X	.30			(Less 10% 1000 rate, 200 at 1000 rate.)	
<i>Ilex crenata helleri</i> , beds, 1-yr.	.30			TERMS: Cash with order—free pack- ing; otherwise, 1/3 deposit with order and balance C.O.D. All shipments by railway express.	
<i>Ilex rotundifolia</i> , 6 to 8 ins., 2-yr., X	.35				
8 to 12 ins., 3-yr., X	.45				
12 to 18 ins., 3-yr., X	.75				

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association, including the annual election. Addresses by Samuel E. Blair, president of the New Jersey association, and Richard P. White, executive secretary of the American Association of Nurserymen, will open the meeting on Thursday, January 28.

On Thursday afternoon a report on recent advances in horticultural research by Dr. S. L. Emsweller, horticulturist of the bureau of plant industry, United States Department of Agriculture, Beltsville, Md.; a

discussion of shade tree problems by Richard Walter, shade tree commissioner, Maplewood, N. J., and a report from Rutgers will begin the series of educational talks which will highlight the 2-day event.

An evening session on January 28 will be held in the Rutland room. Dinner will be served.

A business meeting will lead off Friday's activities, after which three informative talks—"Regulation of Foreign Imports," by Frank A. Soraci, chief, bureau of entomology,

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Lilacs in choice varieties  
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Red Japanese Maple  
Wistaria Chinensis (blue)  
Wistaria Rosea (pink)

One-year grafts in:

Japanese Flowering  
Cherry, Kwanzan  
(double pink)  
Juniperus Pfitzeriana  
Viburnum Carlesi

Two-year transplants in:

Cotoneaster Divaricata  
Cotoneaster Horizontalis  
Cotoneaster Praecox  
Euonymus Vegetus  
Forsythia Spring Glory  
(new)  
Ilex Convexa (cuttings)  
Prunus Maritima  
(Beach Plum)

One-year transplants in:

Juniperus Hetzi  
Magnolia Soulangeana  
(grown from cutting)  
Regel Privet (genuine)

Seedlings in:

Prunus Maritima  
(Beach Plum)  
Viburnum Carlesi

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New Jersey department of agriculture; "Landscape Selling at the Nursery," by Richard Wyman, Wyman's Framingham Nursery, Framingham, Mass., and "What Makes a Good Foundation Planting?" by Raymond P. Korbobo—will complete the morning session.

After luncheon in the Rutland room, an illustrated talk on holly farming and an address on beautification of county parks are scheduled.

### HORTICULTURAL MEETING

The New Jersey Horticultural Society will hold a dual meeting in the morning of January 29 starting its 1-day convention to be held at the War Memorial building, Trenton, N. J.—one session to deal with fruits and orchards, and one to deal with vegetable-growing. Factors affecting apples, orchard irrigation and insect and disease control will be the main topics discussed at the fruit session. Vegetable production in New Jersey, soil testing results obtained from Gloucester county vegetable farms and water supply for vegetable growers are the subjects scheduled for the vegetable session.

A general session in the afternoon will deal with subjects of interest to both groups and will close with a discussion period.

### NEW JERSEY CHRISTMAS TREE GROWERS TO MEET

A meeting of the New Jersey Farm Forestry and Christmas Tree Growers Association will take place on the afternoon of January 27 in the Wedgewood room of the Hotel Hildebrecht, Trenton, N. J.

Among the subjects to be covered at the meeting are timber marketing in the farm wood lot, Rutgers research on management of locust and Christmas trees, holly as a crop, a wholesale buyer talks to the Christmas tree farmer and the inside story on the use of forest tree planting machines.

### SHADE TREE CONFERENCE

The ninth annual meeting of the Midwestern chapter of the National Shade Tree Conference will be held February 17, 18 and 19, at the Hotel La Salle, Chicago, and will be open to all who wish to attend. The program this year will be directed toward discussion of problems primarily of concern to arborists in the midwest, but also included are topics of general interest. Following the presentation of each paper will

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(Heavy grade)		
2-yr., S., (2-0), 3 to 5 ins.	3.00	20.00
3-yr., S., (3-0), 6 to 12 ins.	5.50	40.00
MUGHO PINE		
2-yr., S., (2-0), 3 to 6 ins.	3.00	20.00
3-yr., S., (3-0), 5 to 9 ins.	4.00	30.00
COLORADO BLUE SPRUCE		
3-yr., S., (3-0), 5 to 8 ins.	7.00	50.00
3-yr., S., (3-0), 6 to 10 ins.	10.00	....
3-yr., T., (2-1), 3 to 5 ins.	7.50	60.00
WHITE SPRUCE		
2-yr., S., (2-0), 5 to 10 ins.	5.00	35.00
4-yr., T., (3-1), 6 to 12 ins.	6.50	50.00
NORWAY SPRUCE		
3-yr., S., (3-0), 5 to 10 ins.	4.50	30.00
JUNIPERUS SCOPULORUM		
3-yr., S., (3-0), 5 to 10 ins.	6.00	40.00
3-yr., T., (2-1), 4 to 7 ins.	8.00	60.00
JUNIPERUS PLATTE RIVER		
(Red Cedar)		
2-yr., S., (2-0), 5 to 10 ins.	5.00	35.00

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1-yr., s.....	\$ 6.00	\$ 40.00
Berberis thunbergii (green)		
2-yr., s., 4 to 9 ins...	5.00	35.00
2-yr., s., 9 to 12 ins...	6.50	50.00
2-yr., s., 12 to 15 ins...	9.00	75.00
Berberis thunbergii atropurpurea (Redleaf)		
2-yr., s., 4 to 9 ins...	6.00	40.00
2-yr., s., 9 to 12 ins...	9.00	75.00
2-yr., s., 12 to 15 ins...	15.00	125.00
Cornus florida		
1-yr., s., below grafting size .....	5.00	40.00
Hydrangea A. G. Hills of Snow		
1-yr., liners .....	7.50	50.00
2-yr., 15 to 21 ins....	15.00	125.00

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be a formal discussion period, with an additional opportunity for questions from the audience during a special question-and-answer session Friday morning.

Included on the program are the following topics and speakers: "Dutch Elm Disease—Elm Phloem Necrosis—Up to Date," a panel discussion by J. C. Carter, Richard J. Campana, and L. L. English, of the Illinois Natural History Survey, Urbana, Ill.; "Transmission of the Oak Wilt Disease," by W. H. Bragonier, Iowa State College, Ames, Ia.; "Insecticide Hazards—Facts and Fallacies," by George C. Decker, Illinois Natural History Survey, Urbana, Ill.; "Control of Scale Insects," by E. F. Herrbach, horticulturist, Standard Oil Co., Chicago, Ill.; "Advantages, Disadvantages and Methods of Licensing Arborists," by Paul E. Tilford, executive secretary, National Arborist Association, Wooster, O.; "The Arborist and the Client," by Norman Armstrong, Armstrong Tree Service, Inc., Chapel Hill, N. C.; "Techniques of Gaining Favorable Publicity," by Ulmer G. Turner, news commentator, American Broadcasting Co., Chicago, and "Tree Planting for Climate Control," by L. R. Quinlan, Kansas State College, Manhattan, Kan.

### WILLIAMSBURG SYMPOSIUM

The complete program for the 1954 Williamsburg garden symposium was announced recently and will feature two different Tuesday-through-Saturday sessions beginning February 23 and March 2.

Speakers during the first session will include Mrs. Gretchen Harschbarger, garden editor of Household magazine; Francis Coulter, of the Associated Seed Growers; Mrs. Margaret Cochrane Cole, garden club editor of Flower Grower; E. L. Kammerer, arboriculturist, of the Morton Arboretum, and George S. Avery, Jr., director of the Brooklyn Botanic Garden.

Among the speakers at the second session will be Edwin De T. Bechtel, of the New York Horticultural Society; Edwin G. Thurlow, of the department of landscape architecture, North Carolina State College; Jan de Graaff, of the Oregon Bulb Farms, and Donald Wyman, of the Arnold Arboretum.

### ARBORISTS TO MEET

The New York State Arborists' Association will meet January 18 and 19 at Staler Hall, Cornell University, Ithaca, N. Y.

## LINING-OUT STOCK

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300 of any one variety at 1000 rate

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	100 rate Each	1000 rate Each
<i>Aronia arbutifolia</i> brilliantissima, 2-in. pots.....	\$0.25	\$0.20
<i>Berberis mentorensis</i> , 2-in. pots.....	.25	.22
R.C.....	.17	.15
<i>Buddleia</i> (Butterfly Bush).....	.15	.12
Alternifolia, R.C.....	.12	.10
Charming, R.C.....	.12	.10
Dubonnet, R.C.....	.12	.10
Floralart, R.C.....	.12	.10
Red, R.C.....	.12	.10
White Cloud, R.C.....	.12	.10
<i>Callicarpa</i> (Beautyberry).....	.12	.10
<i>Dichotoma</i> , 2-in. pots.....	.17	.15
<i>Caryopteris</i> (Blue Mist).....	.17	.15
<i>Incana</i> , 2-in. pots.....	.17	.15
<i>Cotoneaster</i> .....	.17	.15
Acutifolia, 2-in. pots.....	.17	.15
Adpressa praecox, 2-in. pots.....	.22	.20
Divaricata, 2-in. pots.....	.22	.20
<i>Cydonia japonica</i> (Flowering Quince).....	.12	.10
Glowing Ember, layers.....	.12	.10
<i>Elaeagnus angustifolia</i> (Russian Olive).....	.05	.04
12 to 18 ins., sdlg.....	.04	.03
6 to 12 ins., sdlg.....	.04	.03
<i>Forcythia</i> .....	.17	.15
Fortunei, 2-in. pots.....	.17	.15
Intermedia Spectabilis, 2-in. pots.....	.17	.15
Lynwood Gold, 2-in. pots.....	.25	.22
Ovata, 2-in. pots.....	.20	.17
Spring Glory, 2-in. pots.....	.20	.17
<i>Hydrangea paniculata</i> grandiflora.....	.15	.12
Meehan Strain, layers.....	.15	.12
<i>Lonicera</i> (Honeysuckle).....	.25	.22
Clayey's Dwarf, 2-in. pots.....	.20	.17
Fragrantissima, 2-in. pots.....	.22	.20
Korolkowi, 2-in. pots.....	.22	.20
Korolkowi floribunda, 2-in. pots.....	.22	.20
Morrowli, 2-in. pots.....	.17	.15
Tatarica rubra, Wheeling, 2-in. pots.....	.17	.15
<i>Philadelphus</i> (Mock Orange).....	.20	.17
Lemoinei, Avalanche, 2-in. pots.....	.20	.17
Lemoinei, Enchantment, 2-in. pots.....	.20	.17
Virginalis, 2-in. pots.....	.17	.15
<i>Rosa multiflora japonica</i> .....	.04	.03
2/16 to 3/16-in. caliper.....	.04	.03
<i>Sambucus</i> (Elder).....	.17	.15
Canadensis aurea, 2 1/2-in. pot.....	.17	.15
<i>Spiraea</i> .....	.20	.17
Anthony Waterer, 2-in. pots.....	.17	.15
Arguta, 2-in. pots.....	.17	.15
Bethlehemensis, 2-in. pots.....	.17	.15
Freibell, 2-in. pots.....	.17	.15
Reevesiana, dbl., 2-in. pots.....	.22	.20
Thunbergi, 2-in. pots.....	.22	.20
<i>Viburnum</i> .....	.17	.15
Opulus, 2 1/2-in. pots.....	.17	.15
Opulus sterilis, 2-in. pots.....	.17	.15

### VINES

	100 rate Each	1000 rate Each
<i>Celastrus</i> (Bittersweet).....	.17	.15
Scandens, 2-in. pots.....	.17	.15
<i>Euonymus</i> .....	.17	.15
Fortunei coloratus, 2-in. pots.....	.17	.15
<i>Lonicera</i> (Honeysuckle).....	.15	.12
Japonica halliana, 2-in. pots.....	.15	.12
Japonica, purpleleaf, 2-in. pots.....	.17	.15
<i>Sempervirens magnifica</i> (Dreer's), 2-in. pots.....	.20	.17
<i>Sempervirens</i> , yellow, 2-in. pots.....	.17	.15
Tellmanniana, 2-in. pots.....	.20	.17

### EVERGREENS

<i>Juniperus</i> .....		
Chinensis pfitzeriana, 2 1/2-in. pots.....	.25	.20
Chinensis pfitzeriana, 2 1/2-in. pots.....	.30	.25
Chinensis pfitzeriana compacta (Kallay's), 2 1/2-in. pots.....	.30	.25
Chinensis pfitzeriana compacta (Kallay's), 2 1/2-in. pots.....	.25	.20
Glaucus hetzi, 2 1/2-in. pots.....	.25	.20
Horizontalis plumosa (Andorra), 2 1/2-in. pots.....	.25	.20
Sabina (Savin), 2 1/2-in. pots.....	.25	.20
<i>Sabina tamariscifolia</i> (Tamarix J.), 2 1/2-in. pots.....	.30	.25
<i>Sabina tamariscifolia</i> (Tamarix J.), 2 1/2-in. pots.....	.25	.20
<i>Sabina vonechro</i> , 2 1/2-in. pots.....	.30	.25
<i>Sabina vonechro</i> , 2 1/2-in. pots.....	.25	.20
<i>Thuja</i> (Arborvitae).....	.07	.06
Orientalis (Chinese) 10 to 15 ins., sdlg.....	.05	.04
6 to 10 ins., sdlg.....	.05	.04

### BROAD-LEAVED EVERGREENS

<i>Euonymus</i> .....		
Patens, large leaf, 18 to 24 ins.....	.35	
Patens, large leaf, 15 to 18 ins.....	.30	
Patens, large leaf, 10 to 15 ins.....	.25	
Patens, large leaf, 6 to 10 ins.....	.20	
Patens, small leaf, 2-in. pots.....	.20	.15
Fortunei coloratus, 2-in. pots.....	.20	.15
Fortunei minimus, 3-in. pots.....	.30	.25
Fortunei minimus, 2-in. pots.....	.25	.20
Fortunei, upright, 2-in. pots.....	.30	.25

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# Obituary

## Arthur Folsom Paul

Arthur Folsom Paul, president of Andorra Nurseries, Inc., Conshohocken, Pa., and widely known landscape architect, died at his home on November 29, it has been learned. He was 74.

A graduate of Harvard University, class of 1902, with a degree in landscape architecture, Mr. Paul began his practice in Philadelphia and in 1923 was named president of Andorra Nurseries.

Mr. Paul served on the board of governors of the Philadelphia flower show and was active in many art, civic and church organizations including the Conshohocken Art League, Harvard Club of New York and zoning and planning boards. He was a vestryman of St. Clement's Episcopal church, of Philadelphia.

His firm is a member of the American Association of Nurserymen, the National Landscape Nurserymen's Association and the Pennsylvania Nurserymen's Association.

Surviving Mr. Paul are his widow, Mabel McCallip Paul; four children, Eleanor V., J. Folsom, Kenneth E., and Remsen O., and six grandchildren.

## John W. Sarver

John W. Sarver, former owner of the Sarver Landscape Nursery, Dallas, Tex., who moved to San Marcos, Calif., the past year to start a wholesale nursery in that area, died at San Marcos at the age of 58 December 22. Surviving are his widow, and a sister, Mary Lewis.

## Furman Lloyd Mulford

Furman Lloyd Mulford, for many years engaged in horticultural research and service work for the United States Department of Agriculture and retired since 1939, died December 12, at St. Petersburg, Fla., at the age of 84.

Mr. Mulford was a graduate of Cornell University. He entered the bureau of plant industry in 1911 as a landscape gardener, later became horticulturist and for many years was widely known for his practical bulletins on ornamental horticulture, his contributions to the development of early-flowering chrysanthemums

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### 20,000 Red Pine

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### RED PINE, specimen grade

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3 1/2 to 4 ft., B&B.....	\$ 4.00
4 1/2 to 5 ft., B&B.....	5.50
5 1/2 to 6 ft., B&B.....	6.50

### WHITE-FLOWERING

#### DOGWOOD, standard

3 to 4 ft., B&B.....	2.50
4 to 5 ft., B&B.....	3.00
5 to 6 ft., B&B.....	3.50
6 to 7 ft., B&B.....	4.50
7 to 8 ft., B&B.....	6.50
8 to 9 ft., B&B.....	7.50

For multiple trunks, add 10%.

### TAXUS CANADENSIS

18 to 24 ins., B&B.....	2.50
24 to 30 ins., B&B.....	3.00

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## EUONYMUS ALATUS COMPACTUS

	Per 100
Strong 1-yr., T., 4 to 7 ins..	\$25.00
Strong 2-yr., T., 6 to 12 ins.	35.00
Strong 4-yr., T., 12 to 18 ins., from field rows...	75.00

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4 to 6 ins., 2-yr. seedlings

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4 to 6 ins., 2-yr. seedlings

6 to 8 ins., 2-yr. seedlings—(\$40.00 per 1000)

**RED PINE—\$20.00 per 1000**

4 to 6 ins., 2-yr. seedlings

**RED PINE—\$65.00 per 1000**

8 to 12 ins., 4-yr. transplants

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One of Mr. Mulford's early-flowering hardy mums, Algonquin, is still popular.

He leaves a brother, Walter Mulford, of Berkeley, Calif., formerly of the school of forestry of the University of California.

### Michael W. Reilly

Michael W. Reilly, proprietor of the M. W. Reilly Greenhouse & Nursery, at Elmira, N. Y., died December 3 at his home after an extended illness. Mr. Reilly was 71.

Mr. Reilly was born at Dansville, N. Y., and attended Dansville schools. He entered the nursery business as a youth and was associated with his brothers in the operation of a greenhouse at Dansville for many years before coming to Elmira. He had engaged in landscape work and selling nursery products at Elmira since 1925.

### John W. Stobbart

John W. Stobbart, 85, former landscape man and tree warden of Franklin, Mass., died recently at the home of his daughter, at Wrentham, Mass. Mr. Stobbart, a native of England, came to this country in 1882.

Mr. Stobbart established the John

## SPRING SPECIALS

<b>Euonymus radicans vegetus</b> , bare root, heavy	Each
12 to 15 ins.	\$ 1.75
15 to 18 ins.	2.00
18 to 24 ins.	2.50
<b>Berberis thunbergi atropurpurea</b> , heavy	Per 1000
2-yr., S., liners	\$ 50.00
2-yr., S., 6 to 9 ins.	75.00
2-yr., S., 9 to 12 ins.	100.00
2-yr., S., 12 to 15 ins.	125.00
<b>Rosa multiflora japonica</b> , thorny	
1-yr., 6 to 15 ins., conservation grade	20.00
1-yr., extra heavy, conservation grade	25.00
<b>Raspberries—Indian Summer, Marcy, Milton and September</b>	
<b>Roses—Hybrid Teas and Climbers</b>	
<b>Shrubs</b> , heavy 2-yr. and 3-yr. in good assortment	
<b>Willow, Blue Arctic</b>	
<b>Poplar, Lombardy</b>	

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Juniperus Scopulorum  
Blue Haven

Juniperus Scopulorum  
Pathfinder

Juniperus Virginiana  
Canaerti

Juniperus Virginiana  
Gluca

Juniperus Virginiana Hilli

Arizona Cypress Gareei... .40  
(Grafted on Chinese  
Arborvitae)

Seedlings  
Biota Orientalis Per 1000  
(Chinese Arborvitae)  
1-yr., 3 to 5 ins. .... **\$15.00**

Austrian Pine  
2-yr., 8 to 10 ins. .... **35.00**

## SURPLUS LIST

Arborvitae, B&B Each  
Berckmans. 18 to 24 ins. **\$1.75**  
24 to 30 ins. **2.00**

Excelsa. 24 to 30 ins. **1.75**  
30 to 36 ins. **2.00**

Brewers Hybrid.  
24 to 30 ins. **1.75**  
30 to 36 ins. **2.00**

Poplar, Lombardy, 2-yr. old,  
3 to 4 ft. .... **.10**  
4 to 5 ft. .... **.15**  
5 to 6 ft. .... **.20**

Chinese Elm Seedlings  
1-yr. old, Per 1000  
9 to 12 ins. .... **\$10.00**  
12 to 18 ins. .... **15.00**

## M. MEYER NURSERY

5439 So. Hydraulic  
WICHITA 15, KAN.

W. Stobbert & Son Florists' business, now operated by his son, Arthur R. Stobbert. Another son, Walter F., is owner of the Stobbert Nurseries, Franklin, members of the American Association of Nurserymen.

Mr. Stobbert is survived by a brother, a sister, three sons, four daughters, 18 grandchildren and 17 great-grandchildren.

## LONG ISLAND MEETING

The annual meeting of the Long Island Nurserymen's Association took place December 16 at the Georgian Inn, Huntington, L. I., N. Y. President David Bulk presided at the meeting, which approximately 50 members attended.

The annual election was held, and Mr. Bulk was re-elected president. The new vice-president is Frank Bon Giorno, Suburban Nursery, West Hempstead; secretary, Peter Costich, Hicks Nurseries, Westbury, and treasurer, Frank Williams, Bagatelle Nursery, Huntington Station.

One of the major events of the meeting was a report by Peter Costich on plans for the garden show for 1954. Steve Roberts also reported to the group on this subject.

Charles Mouquin, of the entertainment committee, told of the wonderful time the members of the Long Island association had at the annual outing given by the association and sponsored by Bulk's Nursery. Mr. Bulk, Sr., asked if the group would care to hold the outing at Bulk's Nursery this coming summer, and Mr. Mouquin rapidly accepted on behalf of the association.

The Wiegrow Products Co., of New York city, was accepted as an associate member.

Among the guests at the meeting were Harvey Gray, Clarence Lewis and William Bodin, all of the Long Island Agricultural and Technical Institute. The guests talked about some of the research projects undertaken by the foundation which will prove helpful to the nursery industry at large.

## TEXANS LIKE WHITE FIRS

Colored firs sold better than green trees during the Christmas season at Dallas, Tex., according to a report in the Daily Times Herald, Dallas. Lotmen reported that white trees were the most popular, pale pink second and greens a poor third. Some shoppers ordered special colors to match modern living rooms or to be different, but one lotman reported that most shoppers say the new shades are more attractive.

## WHOLESALE PRICE LIST TO THE TRADE ONLY

### JUNIPERS (heavy sheared)

Pfitzer Juniper Each  
18 to 24 ins. .... **\$2.75**  
24 to 30 ins. .... **3.50**  
30 to 36 ins. .... **4.25**  
3 to 4 ft. .... **5.00**

Von Ehron Pfitzer Juniper  
24 to 30 ins. .... **3.50**  
30 to 36 ins. .... **4.25**  
3 to 4 ft. .... **5.00**

Blue Hetz Pfitzer Juniper  
18 to 24 ins. .... **2.75**  
24 to 30 ins. .... **3.50**  
30 to 36 ins. .... **4.25**  
3 to 4 ft. .... **5.00**

Irish Juniper  
2 1/2 to 3 ft. .... **2.00**  
3 to 4 ft. .... **2.50**

Spiny Greek Juniper  
2 1/2 to 3 ft. .... **2.00**  
3 to 4 ft. .... **2.50**

Terms—5% discount when cash accompanies order, 2% discount when paid within 10 days after receiving invoice. Net 30 days.

WE CAN ARRANGE  
FOR ECONOMICAL  
TRUCKLOAD DELIVERY

## ANNA NURSERY

F. G. Anderson, Prop.  
Office Phone—340  
Residence Phone—299R  
Drawer 119, Anna National Bank Bldg.,  
ANNA, ILL.

## REMEMBER SHERMAN'S for . . .

Alpine Currant  
Hydrangea P. G.  
French Lilacs  
Snowball  
Shade Trees  
Evergreens  
Phlox  
Peonies  
Plum Seedlings  
Lining-out Stock

Let us quote you on your requirements.

**SHERMAN NURSERY COMPANY**  
CHARLES CITY, IOWA

## SEND YOUR SURPLUS LIST OF

Evergreens • Shrubs • Shade Trees  
Flowering Trees • Fruit Trees  
to:

**THE PONTIAC NURSERY CO.**  
ROMEO, MICH.

## GLADS MAKE US GLAD!

Grow some Gladiolus for bouquet sales and grow a little seed for the thrill that comes with new originations. We will have list ready in few weeks.

**VENNARD NURSERY**  
Box 394-N SIOUX CITY, IA.

## FRENCH PUSSY WILLOW

(Salix Discolor Selection)

Beautiful February-flowering strain. Catkin sheath is a rich mahogany-red with attractive, large silvery-pink catkins when mature.

24 to 30 ins., \$4.00 per 10, \$35.00 per 100.

**BEARDSLEE NURSERY — PERRY, OHIO**

## CLAIM FUTURE OF ARNOLD ARBORETUM IS THREATENED

A charge that the future value to horticulture of the Arnold Arboretum is being threatened by Harvard University action is now being prepared for presentation to Massachusetts courts.

The charge, filed as a lawsuit recently by a group of Harvard graduates known as the Association for the Arnold Arboretum, says that the arboretum, located at Jamaica Plain, Mass., will be seriously hurt in its work by a decision of the Harvard Corp. to move most of the herbarium and the library of the arboretum to a new building at Cambridge, Mass., seat of Harvard University.

The corporation, which is in charge of administering all endowment funds for the university (the arboretum was endowed in 1872 with money from James Arnold, New Bedford, Mass., merchant, as a gift to the university), has taken the step in order to improve Harvard's botany department. The Association for the Arnold Arboretum claims that this action threatens the future of the arboretum and is not legally valid.

The association says that the arboretum was given to Harvard to exist as an integrated 3-part unit, the herbarium, the library and the collection of living plants and shrubs. For that reason, they say, it cannot legally be separated.

Professor Charles S. Sargent, director of the arboretum for 48 years until 1927, is quoted in support of the association's arguments. "The collection of living trees and shrubs," he said in 1924, "is chiefly for the benefit of the general public and for persons interested in gardening and living in climates similar to that of New England. The value of this department is dependent on the first department, or the collection of dried plants, and this is dependent on the second department, the collection of books."

The association claims that many gifts were made to the arboretum in the belief that it would continue to operate as it has in the past. The benefactors, it is claimed, would be aggrieved, and future gifts to the arboretum might be more difficult to obtain.

The present lawsuit is not designed to prevent the corporation from moving the herbarium and library as it has planned to do, but instead it is designed to force the corporation to obtain judicial advice as to the legality of the move before it is made.

## LINING-OUT STOCK

Write for illustrated list.

	Per 100	Per 1000
<b>Black Hills Spruce, XX, 12 to 15 ins.</b> .....	<b>\$50.00</b>	.....
XX, 9 to 12 ins. ....	30.00	.....
X, 6 to 9 ins. ....	15.00	.....
3-2, 4 to 8 ins. ....	10.00	<b>\$ 75.00</b>
<b>Colorado Blue Spruce, X, 6 to 9 ins.</b> .....	<b>16.00</b>	.....
2-0, 4 to 6 ins. ....	7.50	<b>32.00</b>
2-0, 2 to 4 ins. ....	5.00	<b>20.00</b>
<b>Scotch Pine, XX, 18 to 24 ins.</b> .....	<b>50.00</b>	.....
XX, 12 to 18 ins. ....	30.00	.....
2-2, 6 to 12 ins. ....	12.00	<b>100.00</b>
<b>Austrian Pine, 2-0, 2 to 5 ins.</b> .....	<b>6.00</b>	<b>25.00</b>
2-1, 2 to 4 ins. ....	8.00	<b>35.00</b>
<b>Douglas Fir (Pseudotsuga Taxifolia Glauca),</b>		
2-0, 3 to 8 ins. ....	7.50	<b>28.00</b>
<b>Douglas Fir (Snowy Mountain), X, 4 to 10 ins.</b> ....	<b>15.00</b>	<b>125.00</b>
<b>Norway Pine, 2-1, 2 to 4 ins.</b> .....	<b>5.00</b>	<b>25.00</b>
<b>White Birch, X, 12 to 24 ins.</b> .....	<b>25.00</b>	.....

## Scotch Pine Christmas Tree Stock

Our Scotch Pine, in both seedlings and transplants, is heavier stock than before.

	Per 100	Per 1000	Per 1000 (in lots of 10,000)	Per 1000 (in lots of 100,000)
<b>Riga Scotch Pine, 2-1, 3 to 8 ins.</b> ...	<b>\$10.00</b>	<b>\$45.00</b>	<b>\$40.00</b>	.....
2-0, 8 to 12 ins. ....	8.00	42.50	38.50	.....
2-0, 3½ to 8 ins. ....	7.50	26.00	24.00	<b>\$22.50</b>
2-0, 2 to 3½ ins. ....	4.00	16.00	15.00	<b>14.00</b>
<b>Scotch Pine, 2-0, 3 to 6 ins.</b> .....	<b>5.00</b>	<b>22.00</b>	<b>20.00</b>	.....

TERMS: Cash with order please; or 25 per cent deposit, balance before shipment. 25 at 100 rate, 250 at 1000 rate; all seedlings in multiples of 50, all transplants in multiples of 10.

Packing charge included in tree prices. Minimum order \$10.00.

## MATTHEWS NURSERY

Telephone 123 or 732

HARBOR SPRINGS, MICH.

*Minnesota Grown*

**FLOWERING CRABS  
ORNAMENTAL TREES  
and SHRUBS**  
Fruit Trees and Berries  
.....  
**Complete Selection  
of Fine Roses**  
Write for our Free Wholesale Catalog

**Andrews**  
NURSERY COMPANY  
SINCE 1872  
FARIBAULT, MINN.

## MARY WASHINGTON ASPARAGUS ROOTS

2-yr., heavy

	Per 1000
1000 Plants .....	<b>\$17.00</b>
5000 to 10,000 Plants .....	<b>15.50</b>
10,000 Plants or more .....	<b>14.50</b>

No. 1 quality. Approximately 125 lbs. per 1000.

Packing free for cash with order.

**SIMS FRUIT & NURSERY FARMS**  
R. 3 HANNIBAL, MO.

# Hold Series of Plant Care Talks

By Archibald Enoch Price

Talks on various phases of tree, shrub and evergreen care were featured at a series of weekly round-table meetings held Monday nights at Glenview, Ill., from October 5 through December 7.

The meetings have been an annual affair for the past several years. They have been attended by arborists, commercial arborists, teachers, professors, foresters, supply house representatives, editors, nurserymen, landscape nurserymen and other interested persons.

The only qualification for attendance at the informally organized discussions is the interest of compatible persons in tree, shrub and evergreen care.

The meetings have been organized by A. E. Price, arborist, Glenview, Ill. Assistance in organizing and developing the theme of the series has come from Noel Wysong, chief forester of the Cook county forest preserve district, and Marvin Stevens, arborist, of Glenview, Ill.

At the first meeting, on October 5, Mr. Wysong reviewed the National Shade Tree Conference. He also described the diagnostic procedure he uses in dealing with tree and shrub ailments.

## Container-Grown Stock Described

The second meeting was conducted by John B. Hill, of D. Hill Nursery Co., Dundee, Ill. Mr. Hill described the use of container-grown stock by the nursery.

At the third meeting, Nels Johnson, commercial arborist, of Evanston, Ill., gave an illustrated lecture on arboricultural practices.

The fourth meeting was conducted by Frank Smith, representative of George A. Davis, Inc. Mr. Smith described studies in leaf feeding, chlorosis, crab grass and chemical soil conditioning.

Dr. Leo R. Tehon, head of the section of applied botany and plant pathology, at the state natural history survey, Urbana, Ill., directed the fifth meeting. Dr. Tehon discussed chemical formulas, chemical analysis and fungicides of the future. Dr. Tehon is recognized as a leader in this field.

Sam Gabriel, assistant chief forester of the Cook county forest preserve district, spoke on grass and turf conditions at the sixth meeting.

The seventh meeting was directed by E. F. Herrbach, horti-

culturist, sales technical service division, Standard Oil Co. Mr. Herrbach used slides to illustrate his talk on insect control developments.

At the eighth meeting, Dr. J. C. Carter, plant pathologist, of the section of applied botany and plant pathology, state natural history survey, Urbana, Ill., showed slides to illustrate his talk on diagnosis of diseases in field and laboratory.

James S. Wells, of D. Hill Nursery Co., Dundee, Ill., spoke at the ninth meeting. Rhododendrons, azaleas and their adaptability to this area was the theme of his talk. He used slides to discuss the possibility of adapting these plants to the northern Illinois climate.

## Irvine Shows Film

The 10th meeting was directed by L. F. Irvine, manager of the

midwestern section of the Davey Tree Expert Co. He spoke on sales and service. He also showed a sound movie on the recruiting and training of Davey tree men.

Those attending, in addition to those already mentioned, included these commercial arborists: E. P. Metcalfe, C. Enid Stillson, Harry A. Morrison, Lawrence Hall, James Burns, Marvin Stevens, Archibald Enoch Price, John Horigan, Joe Josephson, Earle Carlson, Robert Molon, John Conley, G. L. Lam and Wilbert Klug.

Theo Brickman, Donald Alan, E. F. Thalman and James Kacer represented landscape architects.

Also attending were Archibald Jenkins, representative for Permalawn products; F. R. Kilner, publisher of the American Nurseryman; H. S. Bailey, representative of George A. Davis, Inc.; Mrs. C. Enid Stillson; Mrs. A. E. Price, and Mrs. F. R. Kilner.

The group plans to continue the meetings in the fall of 1954.

# SEEDLINGS

	Per 100	Per 1000
Norway Spruce, 2-0, 2 to 4 ins.	\$3.00	\$15.00
Scotch Pine, 2-0, 2 to 4 ins.	3.00	15.00
Austrian Pine, 2-0, 2 to 4 ins.	3.00	15.00
Jack Pine, 2-0, 4 to 6 ins.	3.00	15.00
Mugho Pine (Dwarf Tyrolean), 3-0, 2 to 4 ins.	3.50	20.00
Pinus Montana Uncinata (Fast-growing Mugho), 3-0, 3 to 5 ins.	3.50	20.00

Our seedlings are grown in high humus beds, 1 yard of peat to 100 square feet of bed. Low density assures sturdy stems and excellent fibrous roots. This year they average 34 per square foot.

Terms: 50 and 500 of a size and kind sold at the 100 and 1000 rate respectively. Orders may be booked one-half cash, balance C.O.D.

## ARMINTROUT'S EVERGREEN NURSERY

ALLEGAN, MICH.

## ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a  
general assortment for  
the best landscape plantings.

**BRYANT'S NURSERIES**  
Princeton, Illinois

## Painesville, Ohio, Grown BUSH AND CLIMBING ROSES

	Each
Blaze, 2-yr., XXX.	35c
Paul's Scarlet, 2-yr., XXX.	35c
American Beauty, 2-yr., XXX.	35c
Multiples of 10, please.	

## CALL'S NURSERIES

Call Road PERRY, OHIO

Est. 1877

Cash with order, boxing FREE



## NEW JUNIPERUS VIRGINIANA BURKI COMPACTA

Since the trend of building is changing to ranch-type homes, etc., this is a very desirable evergreen. Grows natural, low and broad and needs very little trimming to keep it this way.

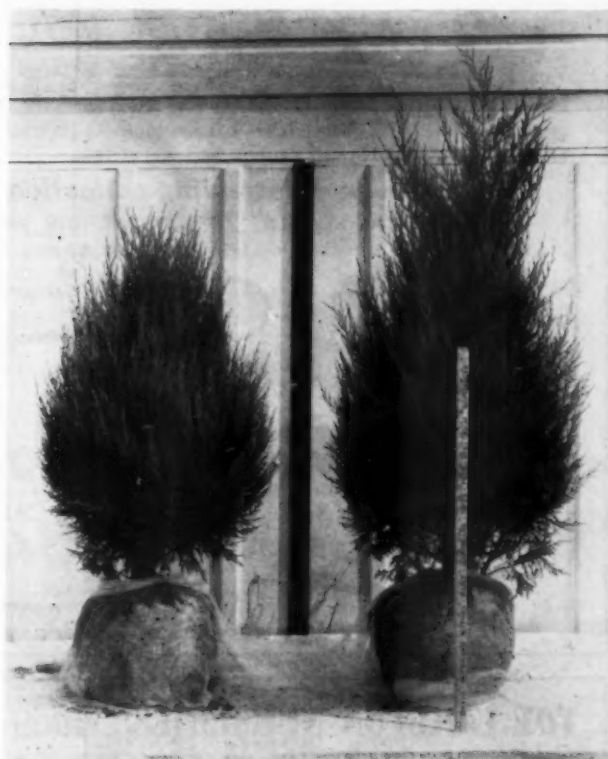
Grafts are available for next spring, 1954, at \$75.00 per 100.

### PAUL OFFENBERG NURSERIES

PROPAGATORS AND GROWERS OF EVERGREENS  
AND ORNAMENTAL PLANTS

3415 E. Livingston Ave.

COLUMBUS 13, OHIO



Juniperus Virginiana Burki  
COMPACTA

(Never Trimmed)

Juniperus Virginiana Burki

(Same Age)

(Twice Trimmed)

### M. TRUMAN FOSSUM HEADS STANDARDS COMMITTEE

Dr. F. P. Cullinan, president of the American Society for Horticultural Science, has announced the recent appointment of a committee for grades and standards of horticultural specialty crops. M. Truman Fossum, agricultural economist of the United States Department of Agriculture, has been appointed chairman of the committee, and members comprising the committee include W. C. Holley, Colorado; H. C. Kohl, California; E. W. Lyle, Texas; E. W. McElwee, Florida; Kenneth Post, New York, and Donald P. Watson, Michigan. Members of the committee represent six geographic divisions of the country: mountain states, Pacific states, south central states, south Atlantic states, north Atlantic states and north central states.

The composition of this committee represents a good balance of florists, nurserymen, bulb growers and flower seed growers and good geographic distribution.

J. E. SMITH, of Smith's Gardens, Cumberland, Md., recently completed construction of a new 28x200-foot greenhouse.

## PLANNING FOR SPRING PLANTING?

REMEMBER TO INCLUDE SOME OF THESE GOOD  
BERRYHILL LINERS IN YOUR LIST OF STOCK:

	Each per 100	Each per 1000
Cotoneaster apiculata, 2-in., pots.....	\$0.25	\$0.22
Cotoneaster apiculata, heavy, 2-yr., T.....	.35	.32
Euonymus alatus, 2-yr., pots.....	.22	.20
Euonymus alatus, 4-yr., TT.....	.45	.40
Euonymus alatus compactus, 2-yr., pots.....	.22	.20
Euonymus alatus compactus, 4-yr., T, 8 to 10 ins.....	.40	.35
Euonymus alatus compactus, 4-yr., T, 10 to 12 ins.....	.45	.40
Euonymus radicans erectus, 2-in., pots.....	.17	.15
Euonymus radicans erectus, 3-yr., field, 9 to 12 ins.....	.40	...
Euonymus vegetus, 2-yr., T.....	.30	...
Thuja occidentalis elegantissima, 3-yr., T.....	.45	.40
Thuja occidentalis nigra, 3-yr., T.....	.45	.40
Thuja occidentalis spiralis, 3-yr., T.....	.45	.40
Biota aurea nana, pot plants.....	.25	...

Minimum order, 50 plants of a variety and size, please. 100 plants to the order.

Order right from this list and also let us send you our catalog with a complete list of liners and finished cash-and-carry and landscape sizes.

## THE BERRYHILL NURSERY CO.

P. O. Box 696

SPRINGFIELD, O.



## TAXUS.....

Our Taxus are especially nice this season — compact, dark green and three times transplanted. Varieties include: Cuspidata, Media, Capitata, Hatfieldi, Hicksi, Browni and Repandens.

**We have an outstanding collection of:**

- ORNAMENTAL PLANTS
- SHRUBS
- FLOWERING TREES
- SHADE TREES



Write for price list.

**THE W. A. NATORP CO.**

4400 Reading Rd.

Cincinnati 29, Ohio

Visit our nurseries when in Cincinnati

## THE LAKETON NURSERIES, Laketon, Ind.

*Quality Nursery Stock since 1880*

### COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade  
Trees, Roses and Lining-out Stock.

Write for complete list.

**ONARGA NURSERY CO.**  
ONARGA, ILL.

### HARDY PLANTS Bulbs and Shrubs

"America's Finest"

Write for Trade List

*Springbrook Gardens*

MENTOR, O.

### FOR PROMPT ACTION

Send us your Surplus List.

**GROWERS EXCHANGE, Inc.**

P. O. Box 264 FARMINGTON, MICH.

### Seedlings and Transplants

**NEWPORT NURSERY CO.**

NEWPORT, MICH.

### Scarff's Nursery

FRUITS  
ORNAMENTALS  
LINING-OUT STOCK  
Send for Complete Trade List.  
NEW CARLISLE, O.

### HENRY NURSERIES

**Ingels Bros.**  
**HENRY, ILLINOIS**  
Growers of General Nursery Stock.  
Visitors Welcome.



### EVERGREENS

Growers of Quality Evergreens  
Lining-out Stock a Specialty  
Write for Trade List

**EVERGREEN NURSERY CO.**  
Established 1864 : STURGEON BAY, WIS.

### NEW PUSSY WILLOW SILVER CLAW

(Mutabilis Selection)  
Excellent low-growing, extremely early-flowering  
variety. Catkins are long and slightly curved  
around stem when fully developed. Ideal florists'  
variety.

\$1.00 each.

**BEARDSLEE NURSERY — PERRY, OHIO**

## DROUGHT VIEWED BY GROWERS OPTIMISTICALLY

[Continued from page 10]

northern areas were not visibly affected. Kimball Andrews, Andrews Nursery Co., Faribault, Minn., reports better looking stock this year than the previous year.

According to Ed Flood, Jr., D. Hill Nursery Co., Dundee, Ill., nothing was killed outright, but since stock did not make its usual growth, digging was held up. Winter burn has already been noticed, and much stock, left in weakened condition, may die this winter.

"From the standpoint of all sales," Vernon Marshall, of Marshall Nurseries, Arlington, Neb., reports, "we feel that the drought was responsible for some decline in our fall business since buyers in this area are weather-conscious and evidently decided to put off planting until the weather changed for the better, and, of course, by that time it was too late for the consideration of fall planting."

"We have had considerable moisture for the past three weeks, and I feel that the winter soil moisture will be fairly satisfactory. With some additional winter moisture in the way of snow and the usual amount of rain next spring, conditions of field and nursery crops should be back about to normal."

### SOUTH CENTRAL STATES:

Severe drought throughout the south and southwest meant heavy spring losses. J. R. Boyd, Forest Nursery Co., McMinnville, Tenn., reports 106 consecutive days without rain; C. L. Wheelock, Tropical Nursery, Brownsville, Tex., reports one and one-half inches of rainfall from January to August.

Mr. Boyd also reports that up grades are scarce and that cutting wood for future plantings is also scarce; however, he says that few raises in prices are contemplated in his area.

In the southwest, business has been more active than normal despite the drought. J. Frank Sneed, Sneed Nursery Co., Oklahoma City, Okla., reports that fall rains came at the right time to facilitate digging and shipping. He foresees shortages in heavy shrubs, larger shade trees and larger junipers, and he suggests that prices may rise accordingly.

### PACIFIC COAST STATES:

Little drought was reported in Washington or Oregon, and only normal aridity was reported in California. Few shortages are foreseen,

and few price increases are planned.

An increased demand for fruit tree and grape vine plantings has resulted from cotton curtailment, according to Willis A. Stribling, Stribling's Nurseries, Merced, Calif. Mr. Stribling also reports a late frost which killed some buds, particularly walnuts. Nematode-resistant rootstocks are in increasing demand for planters in light, sandy soil where a nematode problem exists, he reports.

"Below normal rainfall for the past five years has presented a serious problem to California agriculturists," says J. Awdry Armstrong, Armstrong Nurseries, Ontario, Calif., "but I doubt if the prolonged drought will make any difference in the size or quality of our California nursery crops. It probably does make a difference in cost of raising stock since it has taken additional money and effort to expand and conserve our water supply."

James A. Doty, Doty & Doerner, Inc., Portland, Ore., reports delay in digging and shipping, but he says there were no weather extremes and the summer was cooler than usual.

### NEW ENGLAND SOILS GAIN

New England soils are more fertile than they were before the Revolutionary War, despite the fact that they have been cultivated longer than any other soils in the United States. This encouraging statement was made recently by Dr. C. L. W. Swanson, head of the soils department at the Connecticut agricultural experiment station, New Haven, Conn.

Although naturally infertile, most soils in the six New England states are highly responsive to fertilization. In general, more nitrogen, phosphorus and potash are being returned to New England soils each year than are being removed by crops. Comparison with uncultivated, forested soils showed that those being used for agriculture are higher in phosphorus, potash, magnesium and calcium. The cultivated soils are, however, lower in organic matter and in poorer physical condition.

In New England, the topsoil was never more than two or three inches thick, while in Iowa a topsoil often measures from 12 to 18 inches under virgin prairie. However, the light, sandy soils of New England respond readily to fertilizer applications. Their single-grained structure allows for good aeration and rapid oxidation of organic materials, which means nutrients are quickly made available to plants.

## CHOICE NURSERY-GROWN SEEDLINGS

Each per 1000  
(300 or more  
at 1000 rate)

<b>Liquidambar styraciflua.</b>	2-yr., 12 to 18 ins.	5 1/2 c
These are the best Sweet Gum liners you have ever seen. Grown from native Illinois seed. If you have been having trouble growing this fine tree, you haven't been using our liners.	2-yr., 18 to 24 ins.	8 c
<b>Picea pungens glauca.</b> Unusually good blue color.	2-yr., 2 to 4 ins.	2 1/2 c
	2-yr., 4 to 6 ins.	5 c
<b>Pinus resinosa</b> (Norway Pine).	2-yr., 2 to 4 ins.	3 1/2 c
<b>Pinus strobus.</b>	2-yr., 2 to 4 ins.	3 1/2 c
<b>Pinus sylvestris.</b> Heavy caliper. Best good-color, fast-growing type Scotch Pine.	2-yr., 9 to 12 ins.	3 c
<b>Pseudotsuga taxifolia.</b>	2-yr., 4 to 6 ins.	3 c
Colorado selection.	2-yr., 6 to 8 ins.	4 1/2 c

**ROSA MULTIFLORA**—Best thorny, upright type from selected midwest fence parent stock. Per 1000

2/16 to 3/16-in. cal., 12 to 15 ins.	\$15.00
3/16 to 1/4 -in. cal., 15 to 18 ins.	22.00
1/4 to 3/8 -in. cal., 18 to 24 ins.	35.00

Above Multiflora prices apply on units of 1000 plants only. No discount regardless of quantity ordered.

<b>Ulmus pumila.</b> And they are straight as a string.	2-yr., 12 to 18 ins.	1.6 c
	2-yr., 18 to 24 ins.	2 c
	2-yr., 2 to 3 ft.	3 1/2 c
	2-yr., 3 to 4 ft.	5 1/2 c

Samples on request. Specify varieties in which interested and send \$1.00 to cover mailing.

**MISSOURI  
GROWN  
IS HARDY** ... 

**FORREST KEELING NURSERY  
ELSBERRY, MO.**

Hugh Steavenson, Prop.



### ARBORVITAE

(Dark Green)

5-yr. liners, XX

Excellent quality. Attractive prices.

Per 100 Per 1000

12 to 15 ins.	\$0.35	\$0.30
15 to 18 ins.	.50	.45
18 to 24 ins.	.70	.65

No Packing Charge

OPERATED BY HOLTON & HUNKEL CO.

P. O. BOX 1747 MILWAUKEE, WIS.



Hydrangea P. G.

Hydrangea P. G. (Tree Form)

Grapevines, 1-yr.

Ornamental Trees

Thorne Brewster

**WILLOWBEND NURSERY**  
PERRY, OHIO

### PFITZER JUNIPER LINERS

In Plant Bands.

6 to 8 ins.	14 1/2 c
8 to 10 ins.	20 c
10 to 12 ins.	26 c

Field-grown, Bare-root Transplants; Branched and Trimmed.

8 to 11 ins.	40 c
11 to 14 ins.	55 c

All prices are at 1000 rate, 300 or more. If total order is less than 300, prices are 2c more on each plant.

See our classified ads for other banded evergreen and shrub liners and dormant bare-root shrub liners—including:

<b>Forsythia Spring Glory</b> , heavy.	
4 to 6 ins.	7 c
<b>Blue Leaf Willow</b> , br., 8 to 10 ins.	6 c
<b>Euonymus Patens</b> , large leaf.	
6 to 10 ins.	8 c

Not necessary to unpack our banded plants. Evergreens will continue to grow for months in shipping crates.

Book your order for spring.

**McININCH GREENHOUSES**  
ST. JOSEPH, MO.

**AMERICA'S BEST SOURCE  
FOR  
HARDY PLANTS**

WRITE FOR  
TRADE LIST

MENTOR,  
OHIO

**Wayside W Gardens**



## Hardy Northern Grown Stock at WHOLESALE

### JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

#### INDUSTRIAL LANDSCAPING BENEFITS CHICAGO FIRM

The landscaping of a Chicago factory has attracted wide attention, including a report in the Chicago Tribune recently. According to the report, this firm, the Caspers Tin Plate Co., was one of the first to locate in Chicago's central manufacturing district and has set the pace for industrial buildings later built in the area.

Round outside corners and almost continuous stretches of windows give the factory building an unusually streamlined effect, and its attractiveness has been heightened by tasteful landscaping.

When the building was completed in 1937, the land around the building was dug out to a depth of three feet and refilled with rich, black earth. Landscaping included the use of 430 hawthorn trees, 16 Chinese elms, six Huntington elms and 650 privet shrubs. A creeping bent lawn is watered by means of automatic sprinklers.

Officers of the company were at first criticized for the large expenditures made for beautification, but criticism vanished when the benefits of the beauty became apparent. Industrialists complimented the firm on its factory's appearance. Among these was Benjamin F. Fairless, former president of United States Steel Corp., who told the firm's executives that something would be wrong with a customer who came into the plant with an order in his pocket and left without buying.

A MARKER bearing a full description will be placed on each plant at the new Elmwood Gardens, Abilene, Tex., to facilitate self-service. The nursery was opened in December by C. W. Carter.

RALPH PINKUS, of North Haven Gardens, Dallas, Tex., was elected first vice-president of the First Men's Garden Club of Dallas recently.

## PINK FLOWERING DOGWOOD

Dormant buds for lining out and growing on.

	Per 10	Per 100	Per 1000
(Budded Summer 1953)	\$ 4.00	\$ 30.00	\$ 250.00
8 to 12 ins.	7.00	65.00	500.00
12 to 18 ins.	9.00	85.00	750.00
18 to 24 ins.	12.50	100.00	950.00
2 to 3 ft.	17.50	150.00	1350.00
3 to 4 ft.	40.00	300.00	2750.00



### Boyd Nursery Co., McMinnville, TENN.

#### LINING-OUT and FINISHED STOCK

Ask for List

### THE COTTAGE GARDENS

*Our 31st Year*

Nick I. W. Kriek - Harold E. Hicks  
LANSING 15, MICH.

#### LINING-OUT STOCK

Azalea Mollis

	Per 100
3-yr., XX, l.o. stock	\$10.00
4 to 6 ins.	15.00
6 to 8 ins.	20.00
8 to 10 ins., bushy	25.00
10 to 12 ins., bushy	30.00

Lilacs

Florent Stepmann, Ruhm von Horstenstein, Michel Buchner, Hugo de Vries, Ludwig Spaeth, President Grevy, Charles X, Hugo Koster, Mme. Lemoine and Charles Joly.

1-yr., buds, l.o. stock	\$25.00
1 to 2 ft.	30.00
1 to 2 ft., br.	35.00

THE LITTLE MOUNTAIN VIEW NURSERY  
R. D. 1, Route 84 MENTOR, O.

#### WHOLESALE GROWERS OF HARDY STOCK FOR THE NORTHWEST

SUMMIT NURSERIES  
Stillwater, Minn.

#### TEUCRIUM CHAMAEDRYIS

Well-rooted cuttings.

\$5.00 per 100      \$45.00 per 1000

BEARDSLEE NURSERY  
PERRY, O.

#### NORTHERN-GROWN STOCK

Evergreen Liners  
Bleeding Hearts  
Ornamental Shrubs  
Fruit Trees  
French Lilacs  
Philadelphus Minnesota Snowflake  
(Plant Patent No. 538).  
Send for list.

J. V. BAILEY NURSERIES  
ST. PAUL & MINNESOTA

#### WELLER'S PERENNIALS

With That Wonderful Root System  
Headquarters for  
HARDY MUMS AND PHLOX  
Ask for our Perennial Catalog.  
WELLER NURSERIES CO., Inc.  
Leading Perennial Growers  
HOLLAND, MICH.



### LEGAL DECISION FAVORS NURSERYMEN

The Michigan employment security appeal board recently upheld a referee's decision in the case of Durrant Nurseries (Grand Rapids) vs. State of Michigan, unemployment compensation division.

This decision, in substance, established the following precedents:

1. It held that policing of nursery property; selling nursery stock from the cash-and-carry bins and from the premises of the nursery; repairing and maintaining tools and equipment used in the nursery (including trucks and tractors), and loading of tools, equipment and nursery stock on trucks for delivery to the premises of a customer constituted agricultural labor and therefore was exempt under the Michigan employment security act.

2. It went further, however, and held that services performed by employees in the delivering of nursery stock to the premises of a customer, the preparation of ground and the planting of that nursery stock on the premises of the customer was also agricultural labor and exempt under section 42(6)(d)(4) of the act.

The board of governors of the Michigan Association of Nurserymen felt, after a review of paragraph 2, that it was of the utmost importance to all Michigan nurserymen and landscape operators that this decision be upheld by the appeal board—and for this purpose the board appropriated funds necessary to retain counsel.

With this decision upheld before the appeal board (and possible subsequent appeals to the circuit court), Michigan nurserymen should be enabled to expand their activities and thereby make for more economical operation without fear of being subject to provisions of the act because they employ more than eight workers in any 20-week period of any calendar year—it being generally understood that many nursery owners have restricted their operations so that they never hire in excess of eight workers in any given 20-week period.

J. D. TINSLEY, J. D. Tinsley Nursery Co., Dallas, Tex., has built a 40x90-foot slat shed for shading plants as part of a gradual expansion program.

TOYO NURSERIES, operated by Edna Matsusaki, is a new firm at Phoenix, Ariz.

## LINERS

2 1/4-in. pots, except where noted. \*Bed-grown.

	Per 100	Per 1000
<b>Buddleia</b>		
Fascination	\$15.00	\$125.00
Ile de France	15.00	125.00
Pink Charming	15.00	125.00
Royal Red	15.00	125.00
White (long spike)	15.00	125.00
<b>Buxus</b>		
Sempervirens (rooted cuttings)	10.00	75.00
<b>Chamaecyparis Retinospora</b>		
*Pisifera Crippsi	20.00	185.00
Pisifera Crippsi	20.00	185.00
*Pisifera Plumosa, 6 to 8 ins.	17.50	150.00
<b>Euonymus</b>		
*Patens, 6 to 8 ins.	15.00	125.00
*Patens, 8 to 10 ins.	20.00	185.00
<b>Ilex</b>		
*Cornuta (seedlings), 6 to 8 ins.	20.00	185.00
*Crenata	17.50	150.00
*Crenata Bullata Convexa, 6 to 8 ins.	22.50	200.00
*Crenata Bullata Convexa, 8 to 10 ins.	45.00	400.00
*Crenata Rotundifolia, 6 to 8 ins.	20.00	185.00
<b>Juniperus</b>		
Conferata (Litoralis)	20.00	180.00
Pfitzeriana	22.50	200.00
Pfitzeriana Hetzi	22.50	200.00
Sylvestris	20.00	185.00
<b>Magnolia</b>		
*Soulangeana	50.00	400.00
Photinia Serrulata	20.00	185.00
<b>Pyracantha</b>		
Lalandi, orange berries	20.00	180.00
<b>Thuja (Arbovitae)</b>		
*American Nigra (Compacta), 6 to 8 ins.	22.50	200.00
*Elegantissima, 6 to 8 ins.	22.50	200.00
*Lutea (George Peabody), 8 to 10 ins.	20.00	180.00
*Pyramidalis, 6 to 8 ins.	22.50	200.00
*Woodwardi, 6 to 8 ins.	25.00	225.00
Woodwardi	20.00	185.00
<b>Viburnum</b>		
*Setigerum, 8 to 10 ins.	17.50	150.00



### GRESHAM'S NURSERY

Phones: 82-5689

Night 82-5680

R. F. D. 9  
RICHMOND 25, VA.

## PLAN TO ATTEND THE VIRGINIA CONVENTION

To Buy — To Sell  
To Enjoy a Winter Jubilee

January 24, 25 and 26  
Hotel John Marshall  
Richmond, Virginia

Interesting Program • Outstanding Exhibits

A nice stopover on your way south.

For room reservations, write or wire:

Hotel John Marshall  
Richmond, Virginia



## EUONYMUS PATENS

Uniform type, grown from cuttings, medium-size leaf, bushy plants.

	Each
12 to 15 ins., B&B .....	\$1.25
15 to 18 ins., B&B .....	1.50
18 to 24 ins., B&B .....	1.75

Each grade 25c less if bare-rooted.

See Peony ad in classified section.

Ask for prices on:

<i>Taxus capitata</i> .....	4 1/2 to 7 ft.
Moraine Locust .....	5 to 8 ft.

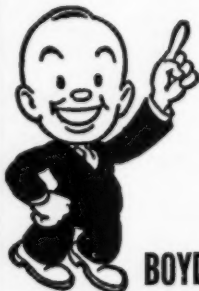
Prices at the nursery, truckload lots, on B&B stock.

### HILLENMEYER NURSERIES

LEXINGTON, KY.

## America's Favorite Flowering Shrub

### SPIRAEA VANHOUTTEI



Our stock is really nice. Its beautiful arching branches are loaded with clusters of snow-white flowers in April and May.

	Per 10	Per 100	Per 1000
L.O., field-grown, C.....		\$ 3.50	\$30.00
6 to 12 inches, C.....		4.00	35.00
12 to 18 inches, C.....		5.00	40.00
12 to 18 inches, hedging.....		7.00	60.00
18 to 24 inches, hedging.....		9.00	80.00
12 to 18 inches, well-br.....	\$1.50	10.00	....
18 to 24 inches, well-br.....	2.00	15.00	....
2 to 3 feet, well-br.....	2.50	20.00	....
3 to 4 feet, well-br.....	3.00	25.00	....

**BOYD NURSERY CO. - McMINNVILLE, TENN.**

From the  
HEART of  
DIXIE

### MALLOW HIBISCUS, HEMEROCALLIS, ALTHAEA, LIRIOPE, PERENNIALS AND NEW AND UNUSUAL SHRUBS

The Finest of Plants Only

Write for Wholesale Trade List Today.

**RIEDEL PLANT CO.      EXPERIMENT, GA.**

**COMMERCIAL**

**Nursery Co.**  
ESTABLISHED 1900

**Decherd, Tennessee**

## VERHALEN NURSERY

SCOTTSVILLE    12140 HARRY HINES BLVD.  
TEXAS • DALLAS, TEXAS

*Your Profits Grow in Verhalen Plants*

### LINERS

TAXUS — JUNIPERS — THUJAS  
HEMLOCKS — DEUTZIA GRACILIS  
and ROSEA — WEIGELA EVA  
RATKE — TRANSPLANTS AND  
POTTED PLANTS.

**HUMPHREYS LANDSCAPE SERVICE**  
MT. STERLING, KY.

### Specializing in B&B Evergreens

**BROADLEAFS and CONIFERS**

Catalog on Request.

**LINDLEY NURSERIES, Inc.**  
P. O. Box H      GREENSBORO, N. C.



## BOOK REVIEWS

### NURSERY MANAGEMENT

"Principles of Nursery Management," by Dr. Willis P. Duruz, is intended to serve as a text for the beginner in the nursery business and as an aid to those already engaged in the business. It presents the general procedures followed in a modern nursery, with emphasis upon seasonal operations.

Subjects covered in 12 chapters include the growing of seedlings; propagation by vegetative methods; moving and storing nursery stock; grading, storage and shipping, and selling nursery stock. The concluding chapter takes up the administration of a nursery.

The author comes from a family that has been in the nursery business for several generations. He has had considerable experience and professional training in the field. The book was published this year by De La Mare Garden Books, New York, and sells for \$3.50. It is in its second edition.

### BELLFLOWERS

In his latest book, "The Garden of Bellflowers," Dr. Liberty H. Bailey describes every bellflower available for culture in the United States, most of the text being devoted to campanulas, as the true bellflowers, while species of 12 other genera of campanulaceae are included. Dr. Bailey had grown all these in his garden and he prepared the manuscript for this book in 1939-1944. It has been reviewed and checked by Dr. G. H. M. Lawrence, his successor as director of the Bailey Hortorium, at Cornell University, for publication by the Macmillan Co., at \$5, in a volume of 155 pages, 6x9 inches, with 50 black-and-white drawings and a frontispiece in colors. The complete and accurate descriptions are supplemented by keys to the genera covered.

In a preface, the Macmillan Co. comments on the privilege of issuing the new works of a living author over a period of nearly 60 years, for it was in 1896 that the company started publishing books by the dean of American horticulturists, now in his 96th year.

**SIX CHERRIES TEST WELL**

Sweet cherry varieties whose seedlings seem worthy of further testing include Bing, Emperor Francis, Gil Peck, Hedelfingen, Lambert and Schmidt, according to Robert C. Lamb, Cornell University fruit breeder at the agricultural experiment station, at Geneva, N. Y., who recently summarized the inheritance of some of the important characteristics desired in a good sweet cherry as an aid in planning further breeding work with this fruit.

The points covered include color of flesh, texture, season of ripening and size and quality of fruit. Varieties that will combine all the desired qualities with high yields are the main objective of the station's breeding program.

The review of accomplishments over the past 40 years reveals which of the common sweet cherry varieties best pass on their characteristics to their offspring.

"This is not a definite comparison of the breeding behavior of varieties, however," says Mr. Lamb, "for they were not all crossed with the same variety. Still it is a graphic demonstration of the superiority of some varieties as parents in our breeding work.

"By using the information in this summary it is hoped that still further improved sweet cherries may be obtained more quickly."

**C. R. BURR & CO.  
PLANS GARDEN CENTER**

C. R. Burr & Co., Inc., Manchester, Conn., plans to open a retail garden center and plantland in a central location at Manchester. The firm's plans are in response to an increased demand for nursery products of all types, a result of the building boom of recent years.

The 55-year-old nursery, one of the largest in the east, anticipates that the new retail operation will serve Manchester, surrounding towns and Hartford. Evergreens, shade trees, flowering trees, flowering shrubs, roses and other plants are among the products which will be stocked.

OVER 60 varieties and kinds of deciduous trees and 150 specimen plants of woody shrubs have been planted in the Memorial Arboretum of the State University of New York. The school is anxious to obtain for trial additional trees or shrubs suited to the area.

# EVERGREENS

## CONIFERS

Baker Arborvitae  
Berckmans Arborvitae  
Bonita Arborvitae  
Excelsa Arborvitae  
Newark Arborvitae  
American Arborvitae (Sheared)  
American Pyramidal Arborvitae  
American Globe Arborvitae  
Cedrus Deodara  
Juniper, Irish  
Juniperus Andorra

Juniperus Excelsa Stricta  
Juniperus Fastigiata  
Juniperus Pfitzeriana  
Juniperus Pfitzeriana Compacta  
Juniperus Pfitzeriana Nana  
Juniperus Sabina von Ebron  
Juniperus Virginiana Canaerti  
Juniperus Virginiana Dundee  
Juniperus Virginiana Glauca  
Pinus Nigra

## BROAD-LEAVED

Elaeagnus  
Euonymus Patens  
Ilex Opaca East Palatka

Ilex Vomitoria  
Nandina Domestica  
Photinia Serrulata

VISIT OUR NURSERY

BE CONVINCED OF OUR QUALITY

## CARTWRIGHT NURSERIES

COLLIERVILLE, TENN.

Highway 72 East of Memphis

Phone 4352



**SNEED**  
NURSERY COMPANY

*"The Sign of Quality"*

P. O. Box 798      OKLAHOMA CITY, OKLA.

**JUNIPERS  
ARBORVITAES  
HEAVY SHRUBS  
GRAFTED JUNIPERS  
HARDY LINING-OUT STOCK  
100,000 JUNIPER GRAFTS**

Write for our new Spring Price List.

## FLOWERING SHRUBS

	Per 100	Per 1000
<b>Hydrangea paniculata</b> <b>Grandiflora</b>		
(Peegee Hydrangea)		
4 to 6 ins., 1-yr., C.....	5.00	\$ 40.00
6 to 12 ins., 1-yr., C.....	6.00	55.00
12 to 18 ins., 1-yr., C.....	8.00	75.00
12 to 18 ins., 2-yr., well-br.....	9.50	90.00
18 to 24 ins., 2-yr., well-br.....	20.00	150.00
2 to 3 ft., 2-yr., well-br.....	25.00	.....
<b>Spiraea Vanhouttei</b> (Van Houtte Spirea)		
6 to 12 ins., 1-yr., C.....	3.50	30.00
12 to 18 ins., 1-yr., C.....	4.50	40.00
12 to 18 ins., hedging.....	6.00	55.00
18 to 24 ins., 2-yr., well-br.....	16.00	150.00
2 to 3 ft., 2-yr., well-br.....	25.00	.....
Per 10 Per 100		
<b>Cornus Florida</b> (White-flowering Dogwood)		
2 to 3 ft., 3-yr., well-br.....	4.50	\$ 40.00
2 to 4 ft., 3-yr., well-br.....	6.50	60.00
4 to 5 ft., 3-yr., well-br.....	11.00	100.00
<b>Tilia Americana</b> (American Linden)		
2 to 3 ft., 3-yr., well-br.....	3.00	25.00
2 to 4 ft., 3-yr., well-br.....	4.00	35.00
4 to 5 ft., 3-yr., well-br.....	6.00	50.00
6 to 6 ft., 3-yr., well-br.....	8.00	75.00
6 to 8 ft., 3-yr., well-br.....	11.00	.....

## NATIVE EVERGREENS

### Collected Stock

<b>Rhododendron Maximum</b> , <b>Kalmia latifolia</b> , <b>Ilex Opaca</b> , <b>Tsuga Canadensis</b>	Per 100	Per 1000
3 to 6 ins., S.....	\$2.50	\$20.00
6 to 9 ins., S.....	3.50	30.00
9 to 12 ins., S.....	5.50	50.00
12 to 18 ins., S.....	7.00	65.00

Per 10 Per 100		
<b>Acer Rubrum</b> (Red Maple)		
4 to 5 ft., well-br.....	\$4.50	\$40.00
6 to 6 ft., well-br.....	6.00	55.00
6 to 8 ft., well-br.....	7.50	65.00

## CUMBERLAND PLATEAU NURSERY

Route 1 CROSSVILLE, TENN.

## BOXWOOD

<b>Sempervirens</b>	Per 10	Per 100
6 to 8 ins., T., puddled...	\$ 4.00	\$25.00
8 to 10 ins., T., puddled...	4.50	40.00
10 to 12 ins., T., puddled...	6.50	60.00
12 to 15 ins., T., puddled...	8.50	80.00
<b>Suffruticosus (dwarf)</b>		
4 to 6 ins., T., puddled...	3.00	25.00
6 to 8 ins., T., puddled...	4.50	40.00
8 to 10 ins., T., puddled...	7.50	65.00
10 to 12 ins., T., puddled...	10.00	90.00

Write for Complete  
Wholesale Price List.

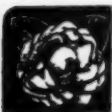
## WAYNESBORO NURSERIES

WAYNESBORO, VIRGINIA

## MORNING STAR NURSERY

Rives, Tennessee  
Wholesale Growers

Evergreens, Trees  
Deciduous Shrubs, Roses  
Send us your want list



## SEMME'S NURSERIES

AZALEAS - CAMELLIAS  
and other choice evergreens

Wholesale Catalog SEMMES, ALA.

## HEMLOCKS IN CONNECTICUT

Eastern hemlocks are graceful evergreen trees which are highly favored as ornamentals and have great potentials as wood producers in forests as well. With this in mind, the Connecticut agricultural experiment station is giving special emphasis to the problems of reproducing and managing hemlocks in field studies of Connecticut forests.

Hemlocks are hardy and easy to grow, even in association with hardwoods, and reproduce themselves under proper management.

Hemlocks probably could grow in many places where they are currently absent. In anticipation of making plantings of hemlock, the station has entered on a program of selecting and even breeding improved varieties, which will pass on their superior growth and form to future generations of trees. The Connecticut genetics and forestry departments are working together to study the natural variation already present in the species and to select and breed new superior races.

Preliminary studies have been concerned with the kind of environment needed for successful growth. High surface temperature and dryness, it has been found, may be fatal to the development of seedlings. Hemlocks fail to survive when temperatures on surface litter reach 160 degrees Fahrenheit, and even moderately high temperatures (around 90 degrees F.) are unfavorable if not relieved by cool night temperatures.

Experiments in growing hemlock seedlings indoors under controlled conditions showed that a month or two of temperatures around 40 degrees F. are normally needed to break dormancy of both seeds and buds. Shortening of the night length, however, either by artificial extension of daylight or by interruption of the night, eventually compensated for lack of chilling in the breaking of bud dormancy. Dark periods of four hours gave greater stem growth than even the shortest nights of summer. Nurserymen might obtain improved growth by exposing their stock to even a dim artificial light once or twice during the night.

The Connecticut experimenters hope to find out the extent of local climatic adaptation and the risk of using seeds from other regions by collecting seeds from northern and southern extremes of distribution and the highest and lowest levels of occurrence on mountains.

From the selection of favorable parents and the best of their off-



## COLONIAL ROSES

Today's leading packaged rose bush. A gorgeous 3 color bag with full color descriptive rose plate, guarantee and planting instructions! It is the modern way to sell roses. Get all the facts on this money maker. Write Today!

Dept. P

**CO-OPERATIVE ROSE GROWERS**  
P. O. Box 808 Tyler, Texas

**Broad-leaved  
Coniferous Evergreens  
Deciduous Magnolias**

Write for complete price list.

**T. G. OWEN & SON, INC.**  
Columbus Mississippi

## CHINESE CHESTNUT TREES

Seedlings Grafted Trees

We offer only the Peter Lui strain of Chinese Chestnut trees which produced the Nanking, Meiling and Kuling varieties. We give you the advantage in price of our long growing season and cheap labor in addition to the proven quality of our trees. Your inquiries are invited.

**LEELAND FARMS**  
LEESBURG, GA.



**Azaleas, Camellias  
and Magnolias  
our  
specialties.**

Semmes, Ala.



## AZALEAS

Broad-leaved Evergreens and a general line of quality ornamentals.

**THE TANKARD NURSERIES**  
EXMORE, VA.

## CANNED PLANTS

Build profits with Wight's container-grown evergreens. Wide assortment, including Ilex, Magnolias, Camellias, Pyracantha. Ask for wholesale list.

**Wight NURSERIES** CAIRO, GA.



spring, the station will aim at developing faster-growing, better-formed strains of hemlocks for future ornamental or forest planting.

#### WESTERN PENNSYLVANIANS NAME OFFICERS

At a meeting of the board of directors of the Western Pennsylvania Nurserymen's Association on December 29, officers were named for the coming year. Samuel Dible, Shelocta, was named president; Homer Thornton, Conneaut Lake, vice-president; Frank H. Brushmiller, Pittsburgh, treasurer, and Frank Curto, Pittsburgh, secretary.

The board of directors had been chosen in an election at the annual meeting of the group on December 9 and includes John Eisler, Samuel Dible, Frank H. Brushmiller, Louis E. Heasley, Homer Thornton, Louis E. Wissenbach and Frank Curto.

#### FENCE POST TESTS MADE

A fence post graveyard at the Ohio agricultural experiment station, Wooster, O., is yielding valuable information about the life and durability of its occupants.

More than 300 posts were set in the ground in 1944 for service testing. These consisted of untreated shortleaf pine, American elm and soft maple posts. Posts of these same species were treated with various preservatives. This year, R. L. Sarles, of the station's forestry department, examined the posts and learned which ones are giving the best service.

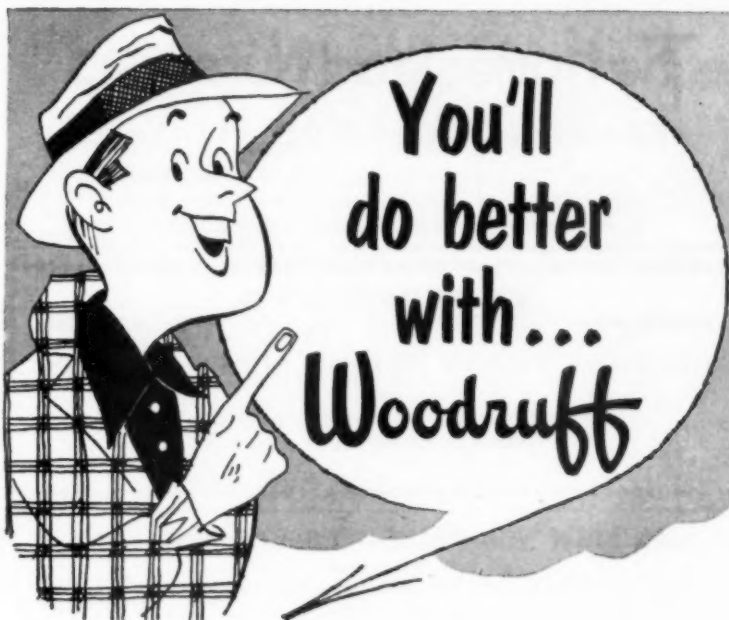
Full length preservative treatment is essential with posts made from these nondurable woods to insure a sound condition above the ground, Mr. Sarles found.

Materials used to treat the posts were creosote oil and copper naphthenate applied by three different methods—pressure, hot-cold open tank and 15-second dip.

Mr. Sarles does not recommend the 15-second dip treatment since in this experiment it did not increase the service life of the post sufficiently to justify the time and expense.

During the 9-year period, there was no failure at the ground line of posts treated by either pressure or hot-cold bath methods. Untreated pine, elm and maple posts lasted only 7.0, 4.8 and 5.0 years, respectively, in terms of average service life.

LAMBERT LANDSCAPE CO. has opened Garden Market, at 3800 Northwest highway, Dallas, Tex.



Woodruff's famed Turf-Maker and Milford Green mixtures for sun and shade will be advertised to millions of readers this coming season. Woodruff Gro-Sod, the complete lawn fertilizer containing organic nitrogen will be prominently featured.

New store displays, lawn booklet and dealer helps will make the Woodruff dealership the most valuable ever offered the trade.



ANI-4

### F. H. WOODRUFF & SONS, INC.

MILFORD, CONN. • TOLEDO, OHIO • BELLEROSE, L. I.  
ATLANTA • SACRAMENTO • DALLAS • SALISBURY, MD.

### HOLLAND NURSERY STOCK of every description

Grown, graded and packed to meet the requirements of U. S. A. import regulations.

Ask for beautifully illustrated trade list containing extensive assortments of **Azaleas, Rhododendrons, Shrubs, Conifers, Peonies, Phloxes, Bleeding Hearts** and other stock.

Our new race of **extremely hardy Rhododendrons** obtained highest awards at the Ghent Floralien, 1950, and Heemstede Flora, 1953.



### FELIX & DYKHUIS—Boskoop, Holland

Growers and exporters of nursery stock for over 60 years.



# The Homestead Nurseries

## H. G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials — Quality Stock in All Leading Varieties. Trade catalog on request.

**BOSKOOP** **LE FEBER & CO.** **HOLLAND**  
Established 1907  
**RHODODENDRON HYBRID SPRING LINERS**  
and  
**GENERAL NURSERY STOCK**  
**NOVELTIES IN MANY LINES**  
Wholesale Catalog on Request

### JAN SPEK NURSERIES — BOSKOOP, HOLLAND

Est. 1890

Growers and exporters of general nursery stock.

*Specialists in Azalea mollis*

Ask for our catalog.

### GULDEMOND BROS., Wholesale Nurseries

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Growers and shippers of excellent nursery stock.

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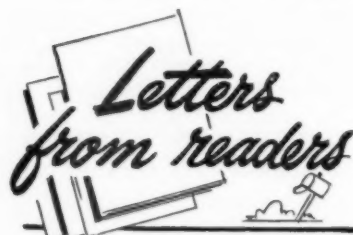
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(Accompanying the article, "Contemporary Landscape Design," by D. Newton Glick, which appeared in the November 1, 1953 issue of the American Nurseryman, was a request for comments from readers on the landscaping principles advocated by Mr. Glick, particularly with respect to the use of inanimate objects in the landscape. Two comments are published herewith; others will appear as they are received and as space permits).

### FENCES SELL PLANTS

In his discussion in the American Nurseryman of November 1, D. Newton Glick described the coming trend toward the use of more structural materials and fewer shrubs. When we in the northwest enter a new yard to discuss planting, we usually find, in addition to the finished house, plans for a fence to tie onto the one next door, a pretty fixed idea of where a patio and a barbecue will someday be, two or more skinned but serviceable native trees, and, often as not, something of a lawn.

Selling shrubs to the owner of this home is easy. He does not like the neighbor's fence and wants to hide it. His own fence will need softening — a few flowering quince or other vinelike shrubs trained along it. He will be lolling around in his patio and needs trees and shrubs for privacy there. He may even put a fence around it. Fine! Then we can sell shrubs for both sides of that fence and also a vine to crawl on top and a tree to hang over it.

Contemporary design won't hurt the nursery business and will only slightly change it by altering some of the varieties we grow. It will enhance our prestige if we help it along.

Harold T. Hopkins,  
Hopkins Nursery,  
Bothell, Wash.

### I AGREE; CLIENTS DO NOT

On page 15 of your unusually informative issue of November 1 you asked for comments.

As with all Professor Glick's earlier

utterances, I am in full accord with his views and am using and preaching his ideas wherever a situation permits.

My difficulty lies in persuading my clients to see it his way. As an example, take certain kinds of rustic fence. I have a difficult time in getting my clients to visualize results and effects. To most it is simply too bold, too offensive and too unorthodox.

But after I have erected the fence and landscaped it and approaches appropriately, they are more than pleased and enjoy comments from outsiders.

I might add that it is always possible to obtain information on horticultural plans and problems by writing state universities. There are books galore on planting material and its use.

Curtis E. Wagner  
Akron, O.

#### EXPANDS CONTAINER STOCK

J. F. Graham, Graham's Floral & Nursery, Dallas, Tex., is expanding both the variety and quantity of container-grown stock. The nurseryman has found increasing demand for this merchandise, primarily because of the ease of transferring such stock into soil by gardeners who plant late in the season and the good growth record of container-grown merchandise when planted late. Mr. Graham also plans to expand his greenhouse space in the spring by adding a new 18x50-foot greenhouse.

#### APPOINTED AS INSPECTOR

Vic Stapper, of the Texas Landscape Co., Dallas, Tex., has suspended business temporarily and is turning over accounts to other nurserymen. Mr. Stapper was appointed chief inspector of landscapes for the West Dallas housing architect's office, which is in charge of the West Dallas housing project. The Lambert Landscape Co., Dallas, has the landscaping contract for the project.

A NEW nursery, to be called Romeo Gardens, Inc., will open for business in the early spring at 67780 Van Dyke avenue, Romeo, Mich. Richard B. Manahan will be president of the concern.

WESTMINSTER NURSERIES, Westminster, Md., are now occupying a new modern office building which was recently built on the new dual highway which passes through their nursery.

## NEW AND OUTSTANDING RED RASPBERRIES

Available first time in quantity lots.

SEPTEMBER (Fall-bearing variety)	10	100	1000
Transplants .....	\$3.00	\$20.00	\$150.00
1-Yr. No. 1 .....	2.00	15.00	100.00
EARLIERED (Very early one-crop variety)			
Transplants .....	3.00	20.00	150.00
1-Yr. No. 1 .....	2.00	15.00	100.00

Here are two new and outstanding Red Raspberries that have recently been introduced; the September by Geneva, New York and the Earlired by South Haven, Michigan. Both have been tested over a period of years and have proven to be outstanding in their class.

The September ripens approximately a month earlier than the Indian Summer, producing a much firmer berry, large in size and light in color. A very vigorous grower which also produces an early summer crop.

The Earlired is outstanding for its earliness. It ripens a week to ten days ahead of Latham—captures the market at peak prices. Large, well-formed, light-colored fruit. A variety which has proven itself outstanding for an early Red Raspberry.

GIVE THEM A TRIAL—THEY HAVE SALES APPEAL. SOMETHING NEW, SOMETHING GOOD.

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Let us quote our attractive prices.

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1200 Montmorency, 7/16-in. caliper, 1-yr. ....	\$0.50
4500 Montmorency, 5/16-in. caliper, 1-yr. ....	.25
200 Montmorency, XXX, 2-yr., heavy .....	1.25

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	Per 100	Per 1000
1-yr., rooted cuttings .....	\$ 8.00	\$ 70.00
6 to 12-in. plants .....	15.00	135.00
F.O.B. ....	15 Varieties	

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GRAPE VINES  
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**KRIEGER'S WHOLESALE NURSERY**  
BRIDGMAN, MICH.

## WESTERN IDEAS COME EAST

[Continued from page 15]

ulatus), Scotch laburnum (*Laburnum alpinum*), red chokeberry (*Aronia arbutifolia*) and possibly the Laland fire thorn (*Pyracantha lalandi*) which, of course, must be controlled.

In order to direct attention to the entrance, but not forcibly so, it is best to use a low-growing plant at the base of the wall bed on the lawn and on the right or far side of the entrance. The plant should not be so big that it looks like a road block. Plants that can do this job gracefully are Heller holly (*Ilex crenata helleri*), slender deutzia (*Deutzia gracilis*), Korean littleleaf box (*Buxus microphylla koreana*), cranberry and rock cotoneasters (*Cotoneaster apiculata* and *C. horizontalis*) and dwarf cranberry (*Viburnum opulus nanum*). These are a few of the possibilities.

### Dwarf Bedding Plants

Illustration B, of the doorway, shows the need for dwarf bedding plants in the planting beds that are walled by brick. Heller holly has been used with an additional planting of myrtle (*Vinca minor*). Many other plants come to mind that might be used as well, and they include *Ilex crenata Stokes*, *Ilex crenata Kingsville green cushion*, *Ilex crenata mariesi* (nummularia), *Ilex crenata repandens*, *Ilex cornuta rotunda* (not easily obtained in the trade), *Buxus microphylla koreana*, *Cotoneaster congesta*, *Cotoneaster dammeri*, *Cotoneaster adpressa*, *Cotoneaster horizontalis* (it may need replacing after several years), shrub by form of *Euonymus fortunei* vegetus, *Daphne cneorum*, *Viburnum opulus nanum*, *Juniperus procumbens*, *Rhododendron racemosum* and maybe *Pinus mugo mughus* in colder areas, where it will have to be replaced in several years. Others may also require replacing.

*Ilex crenata helleri* and *Vinca minor* are used as bed plants in this planting. I doubt that pachysandra can do as good a job in such a spot as the vinca because its habit is stiffer and more upright. Baltic ivy (*Hedera helix baltica*) might be a little coarse but it is a possibility. Such perennials as *Thymus serpyllum albus*, *Thymus serpyllum coccineus* and *Ajuga reptans* are worthy of consideration.

Illustration B gives us a close-up picture of Hicks' yew as an espalier on the right side of the entrance. The entrance is more interesting because of the yew; this prevents the

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(Oregon-Washington Hollygrape)

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1-yr. seedlings, field-grown, row-run,  
\$35.00 per 1000; \$5.00 per 100.

1-yr. transplants (undercut)  
\$15.00 per 100.

3-yr. stock (twice transplanted)  
18 to 24 ins., \$100.00 per 100;  
25 to 100 rate; less than 25, \$1.15 each.

TERMS—Check is requested before shipment; or will ship C.O.D. if preferred. All orders shipped via railway express.

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#### Azalea Mollis

*Prunus Besseyi*, bushy, 2 and 3-yr. plants

#### ROSES

Many other items

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wall from being too bare. Driftwood is used at the base of the espalier and may or may not be desirable. Things like this are often a matter of opinion. If you live somewhere near the seashore or have an interest in such things, then it might be adapted. You can always use it for a lamp stand, if later you object to it.

If you will go back to illustration A, you will notice that no large plant is used at the distant end of the house to block attention in this direction. It is not necessary since there is a wooded area already doing this job. Also observe that all brick surfaces of the house are painted to encourage unity and simplicity.

The bricked bed should be interesting to those who view it through the large window. After all, a family lives here and watches it through the changing seasons. The bed planting is not particularly interesting in the illustration since it was taken during an off-period of the year. Such a bed can be an exceedingly pleasing area, whether it is composed of perennials or small broad-leaved evergreens, but not a hedge—please!

All planting jobs are interesting; at least, they can be, if you make them that way.

#### TEXAS ROSARIANS ELECT

At a meeting of the Texas Rose Festival Association, held December 15, at Tyler, Tex., L. A. "Slick" Dean was elected 1954 president of the group, succeeding Wilton Daniel.

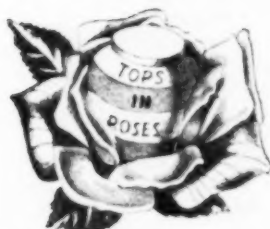
Other officers elected were as follows: Ira P. Hildebrand, executive vice-president; John Stephens, treasurer; Bob Shelton, Vance Burks, Watson Wise and Ben Johnson, vice-presidents. Frank Bronaugh was re-elected executive secretary. Jake Langford was elected president of the Strutters, and Francis Penn was chosen president of the Order of the Rose.

Wilton Daniel, 1953 president of the group, expressed appreciation for the fine work of various individuals and committees in planning and carrying out the 1953 rose festival program. He also acknowledged the association's indebtedness to over 1,500 Tyler citizens who helped make the 1953 festival a success.

After the election, the executive board met to discuss plans for the 1954 program.

CO-PARTNERS in the new Cotati Nursery, at Cotati, Calif., are Frank Lund and William Harrell.

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Allumi Blue, 2 to 3 ft., \$1.50; 3 to 4 ft., \$1.75; 4 to 5 ft., \$2.25  
Pyramidalis, 2 to 3 ft., \$1.50; 3 to 4 ft., \$1.75; 4 to 5 ft., \$2.25  
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## CALIFORNIA ASSOCIATION OF NURSERYMEN

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### LOS ANGELES PLANS FOR ANNUAL CAMELLIA SHOW

Plans for the Los Angeles chapter's camellia show are well under way in southern California. Business meetings, with one exception, were pushed into the background during December by the southern California chapters of the California Association of Nurserymen as the groups enjoyed Christmas parties.

The Inland chapter passed up the usual Yule affair in favor of a business meeting on the night of December 8 to hear Wally Schoenfeld, sales manager for Germain's Los Angeles division, discuss "New Trends in Merchandising." He was able to offer many tips to the Inland members through experience gained with his firm which conducts an extensive wholesale business throughout the Pacific coast area.

At the close of his talk, President Waldo Small led a panel discussion on merchandising methods by members and guests in the audience. Outside visitors attending were Jim Meadows, secretary of the Los Angeles chapter, and Pressley Neville Jones, C. A. N. group insurance representative.

All other chapters utilized their monthly meeting night to enjoy informal Christmas parties.

The Los Angeles group returned to the Clock Country Club, Whittier, for its annual festive gathering on December 9 with more than 200 attending. Primarily a dinner dance, the guests were also entertained with some fine group singing, with special solos by Ruth Babijan, Downey Fertilizer Co., Downey, and Bart Gormley, of Germain's, Inc., Los Angeles. Door prizes contributed by the Downey Fertilizer Co. and the Pacific Guano Co. were won by Mrs. Art Mueller, Ramona Gardens, Pasadena, and Mrs. Harry Carscallen, Carscallen Nursery Label Co., Pasadena.

As usual, the chapter's entertainment chairman, Ernie Bordier, Bordier's Nursery, Covina, was master of ceremonies for the program arranged by the general chairman and immediate past president, Bob Weidner, Buena Park Greenhouses, Buena Park. Each guest received a ticket

for a free drink offered by the Bandini Fertilizer Co., Los Angeles, from the firm's sales manager, Norman Springer.

The next important event on the calendar for the new year will be the Los Angeles chapter's camellia show, scheduled for February 13 and 14 at the Story Park clubhouse, Alhambra. It is patterned after the group's rose show of the past May in the same location, and chapter officers predict that this event will be the highlight of the southern California camellia season.

After a chapter dinner on the night prior to the show's opening day, the public will be invited to view the displays from 10 a. m. to 9 p. m. on Saturday and Sunday. Approximately 30 growers belonging to the C. A. N. have been invited to

exhibit. Visitors to the show will be given a program listing all the C. A. N. retail nurseries in the chapter where the plants may be purchased.

O. L. Weeks, Weeks Wholesale Roses, Ontario, as chapter vice-president and program chairman, heads the show committee making the arrangements. His committee members include Charles S. Crum, Rosedale's Nurseries, Monrovia; John Beach, Germain's, Inc., Van Nuys, and Ernie Bordier.

A special growers' committee was formed to aid in securing and arranging the displays. Named for this group were: Harvey Short, Coolidge Rare Plant Gardens, Pasadena; Julius Nuccio, Nuccio's Nurseries, Altadena; Ernest M. Carter, Carter's Camellia Gardens, Monterey Park; Les Marshall, Marshall's Camellia Nursery, San Gabriel; Mark Paulson, Monrovia Nursery Co., Monrovia; Vince Vernaci, Vincent's Camellia Gardens, Temple City, and Al Robertson, Sierra Growers, Sierra Madre.

An adequate publicity program to advertise the show is being pre-

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	2 1/4-in. pots	Per 100
Frosty, white	.....	\$65.00
Cutie, pink	.....	50.00
Centennial Miss, pink	.....	50.00
Pink Joy, pink	.....	35.00
Oakington Ruby, red	.....	30.00
Rosa Houletti, rose	.....	35.00
Thumbelina, red	.....	35.00

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**CAMELLIAS — ROSES**  
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pared by Harry Endo, Endo's Wayside Gardens, Whittier, chapter publicity chairman. Ed. McNeill

### SAN JOAQUIN MEETS

The late fall meeting of the San Joaquin chapter of the California Association of Nurserymen, held at the Alhambra restaurant at Fresno recently, was attended by 45 members and guests.

Two new associate memberships were approved by the chapter. They were Edwin J. Cook, of Fresno Agricultural Chemical Co., Fresno, and Don Bolle and Peter Field, of Ivory Shavings Co., Dinuba.

Syd Whitehorn reported on the rebates paid on the group state compensation policy.

Progress made on news releases to be furnished by members was also reported.

Ed Cooke, one of the new members, presented slides and movies on Japan and Korea.

There was a show of thanks for Andy Caglia, who arranged the meeting place, and Cliff Oliver, who furnished the flowers. President Bill Moffett presided.

Ivan L. Stribling

### CALIFORNIA NOTES

Ornamental nurseries in the bay area report that Christmas business was excellent. The fall had been rather dull because of dry weather, many potential buyers evidently postponed planting until the ground was softer and easier to work. There has not as yet been much rain, but homeowners seemed to become interested in planting soon after Thanksgiving and may have used Christmas money to buy plants for the home grounds.

The city of Menlo Park is engaged in a tree-planting program. It is being supervised by Leonard Klein, assistant superintendent of public works. In the previous four years of the program more than 1,200 trees were set out. All are saplings raised by the city and selected for their desirability for streetside plantings.

The Peninsula, Central and Monterey chapters of the California Association of Nurserymen held a Christmas party at Los Altos, December 8. Over 200 nurserymen, members of the allied trades and their wives attended. Contemporary entertainment was provided by Los Altos Players in their presentation of "The Drunkard." After the dinner and entertainment, Paul Lerner, of W. B. Clarke & Co., San Jose, acted as Santa

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2 1/4" pot grown conifers  
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<i>Juniperus chinensis pfitzeriana</i> .....	17.50
<i>Juniperus chinensis prostrata</i> .....	17.50
<i>Juniperus chinensis torulosa</i> .....	25.00
<i>Juniperus sabina tamariscifolia</i> .....	20.00
<i>Libocedrus decurrens</i> .....	17.50
<i>Podocarpus macrophyllus</i> .....	17.50
<i>Taxus baccata pyramidalis</i> .....	20.00
<i>Thuja orientalis bakeri</i> .....	17.50
<i>Thuja orientalis compacta</i> .....	17.50

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18 to 24 ins.—\$4.25 ea. Budded, will flower this spring.

30 **Anton V. Wely**, deep pink, 10 to 12 ins., 12 to 15 ins.

10 **Annie Endtz**, bright pink, 10 to 12 ins.

40 **Betty Wormald**, pink, purple blotch, 18 to 24 ins., 24 to 30 ins.

10 **Butterfly**, lemon, dark blotch, 12 to 15 ins.

40 **Cynthia**, rose-crimson, 12 to 15 ins., 15 to 18 ins., 18 to 24 ins.

55 **Fabia**, orange-salmon bell, 12 to 15 ins., 15 to 18 ins.

10 **Fust. Fl. Plena**, lilac, 12 to 15 ins.

20 **Gromo Waterer**, white, 12 to 15 ins.

20 **Jan Dekens**, pink fringed, 10 to 12 ins.

25 **Loder's White**, white, 10 to 12 ins.

20 **Lord Roberts**, red, 12 to 15 ins.

10 **Michael Waterer**, crimson, 10 to 12 ins.

60 **Mme. Masson**, white with yellow, 12 to 15 ins., 15 to 18 ins.

10 **Mme. de Bruln**, red, 12 to 15 ins.

30 **Mother of Pearl**, blush-pink, 18 to 24 ins.

50 **Pink Pearl**, pink, 12 to 15 ins., 15 to 18 ins., 18 to 24 ins.

20 **Sappho**, white spotted, 12 to 15 ins.

50 **Tribby**, dark red, 10 to 12 ins., 12 to 15 ins.

40 **Unknown Warrior**, red, 18 to 24 ins., 24 to 30 ins.

20 **Vulcan**, orange-scarlet, 10 to 12 ins.

30 **White Pearl**, white, 18 to 24 ins.

100 **Rosa Mundt**, early light pink, 12 to 15 ins.

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Lilies

Daffodils

Iris

Claus and presented gifts to everyone present. The festivities ended with community singing.

Good results are reported from the popular bay area TV gardening program, sponsored by nurserymen, which is being continued for another year. During the program the green thumb sign is prominently displayed, and the audience is advised to buy where that sign is displayed. Nurserymen in the area report that many customers ask if the nursery is supporting the program before they buy. Other customers are reported to ask if a nursery is a member of the state association and, if so, why it does not display the sign. The signs are furnished to the nurserymen without charge by the California Spray Chemical Co., Richmond.

Albert Wilson, radio and TV garden consultant and writer, will be back on the air again after February 1. His previous programs were sustaining programs, but his new series will have a sponsor.

Jack Christensen, who since graduation from the California Polytechnic College, San Luis Obispo, has been working at his father's nursery, the Christensen Nursery Co., at Belmont, has been inducted into the army. He is at Fort Ord, Calif. With him is Hans Jacobsen, whose father operates the Peninsula Begonia Gardens, Redwood City. The boys were at college together.

The River road (highway 24), the more scenic but longer route from San Francisco to Sacramento, soon will be more scenic than ever. Dan Caputo, San Jose landscape contractor, has been awarded the contract for beautifying parts of the highway.

Maunsell Van Rensselaer discussed "Shade and Streetside Trees" at a December meeting of the San Francisco Businessmen's Garden Club.

Mr. and Mrs. James Kerr and their three children (Kerr-Langen Seed Co., San Mateo) spent the week between Christmas and New Year's at Yosemite national park.

About 40 years ago Ontario built a wide main street, down the middle of which a well-kept parking strip was constructed. On each side pepper trees were planted. These trees were a well-known landmark and gave the city part of its reputation for attractiveness. Over 150 of the trees were uprooted in the windstorm which hit the area just after Christmas and did an estimated \$4,000,000 worth of damage to the city and environs.



### VINYLLITE TESTS HOPEFUL

Polyethylene (.002 gauge) has already proved itself almost indispensable in propagation work. I have found, however, through punctilious observances of preliminary experiments, that the untested plastic, Vinylite (.008 gauge), is capable of surpassing the lighter plastic when it comes to plant propagation under the new tent method. There were two well-defined results favoring Vinylite:

Softwood and half-ripened stem cuttings of *Pyracantha crenulata* rooted more rapidly under this plastic and produced a heavier root system. These cuttings were rooted in pure sand and potted as soon as rooted. Evidently the greater thickness of Vinylite causes a more saturated atmosphere and less fluctuation of temperature within the tent. Furthermore, the semitransparency withholds excessive sunlight, which is the cause of rapid transpiration. These conditions undoubtedly explain why cuttings root faster under the heavier plastic.

In addition, this tough, cloudy plastic is far better adapted to outside use, and it can reasonably be hoped that, because of its superior construction, it will last many seasons.

I am convinced that the findings of the future will be even more significant and will make the lighter-weight plastics obsolete.

Lewis F. Lipp

### GOOD ROSE YEAR AHEAD

The nursery industry faces unparalleled opportunities in the coming year, according to Charles H. Perkins, president of the Jackson & Perkins Co., Newark, N. Y.

An example is the response to the floribunda rose. While roses have remained popular, Mr. Perkins said, the floribunda appears to be the true 20th century rose. It seems to be the type most desirable for the ranch-style home of today.

Evidence of this popularity is shown in national sales figures, Mr. Perkins said. While the hybrid tea rose is still the most popular, comparative floribunda sales have reached the 50 per cent mark. Every indication is that this percentage will increase.

KENNY'S ROLLING HILLS NURSERY opened recently near Palo Verdes Estates, Calif. It is operated by Paul Henry and Kenny Uyeda.

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2¼-in. pots, \$17<sup>50</sup> per 100

3-in. pots, \$35<sup>00</sup> per 100

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SWEET GUM ..... up to 18 ft.

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Sycamore Maple, greenleaf  
Sycamore Maple, purpleleaf  
Purpleleaf Flowering Plums  
Arctic Willow (*Purpurea nana*)  
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WHOLESALE  
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### CHARLIE CHESTNUT

[Continued from page 17]

"Hungry liked to consider himself as sort of a private detective," Emil continued. "He run down a couple of Mexicans one time that stole a few odds and ends out of a boxcar.

"Hungry was crazy for detecting, so he said he would take the job on a no tree, no pay basis. Him and me drove over to see Weaver.

"We decided it must be somebody from some nearby large town, so I brought Hungry back home and he took the job over on his own, after I showed him what the trees looked like and give him a sample to take along.

"I seen Hungry that night at Steamboat Fultons place. He had on his blue serge suit, his derby, and when he seen me he give me a wink and turned back his coat so I could see his star.

"Starting out tonight," Hungry says, 'Im taking the freight over to Hanover. Ill let you know when I run onto anything.' We ate a little free lunch Steamboat put out in those days and parted. I didnt see Hungry until a week from Saturday. This was a Thursday night, I remember, I was going to the Civic Club."

"Wasnt that an awful lot of bother for a lousy \$30 worth of trees?" I says.

"Thats what I thought too," Emil says, "but you would have to know Hungry, he wouldnt care if it was 30 cents, if he could get just what he was after. As I said, he come back a week from Saturday night and come right out to the nursery."

Emil stopped to fill his pipe again. Emil continued. "Well Hungry," I says, 'Whats the report?'

"It took a mighty lot of hard work, but I found the trees alright," Hungry says. 'Now I aint saying when or how but I talked with the party. This here is a decent party and a church member, wants to do anything possible to avoid a scandal. I didnt promise anything, but told the party I would be back Monday. Told the party if they would pay me a hundred dollars to cover the cost of the trees and my time. I might be able to keep it out of court.'

"Thats up to Weaver," I says, 'we'll ask him.' So we seen Weaver the next day and made him a proposition; for me to replace with some more trees at no cost to him, and Hungry would make his own deal with the guilty party."

"What was the idea of Hungry calling this man a 'party,'" I says.

"I wondered myself about that," Emil says, "and it wasnt until years



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afterward I found out it was a woman, a widow."

"Was that the end of the story, Emil?" I says.

"No," Emil says, "the real part of the story I started out to tell was a sort of an aftermath of this episode. Hungry says to me one day, 'Emil did you ever miss any trees out of the nursery, you got them back there on the far end next to the railroad track, where you cant see what is going on.'"

"I been thinking of that a few times," I says, 'might of been quite a lot stole out of there the last couple of years.'

"As I was looking things over," Hungry says, 'I got into a neighborhood of foreigners, where almost every house has got Irish junipers. I could do a little detective work in that neighborhood, and if I was to collect anything, could I keep anything over \$5 a tree?'

"Its O.K. with me," I says, 'but dont get me into any arguments with my customers.'

"Well, Emil, did he ever collect anything?" I says.

"You know that double barrel Winchester I got, Chas., that cost me \$85, just the amount that Hungry turned in that summer."

"How did he work it, Emil?" I says.

"He never told me himself but he told Steamboat Fulton one night and Steamboat told me. It was that police star that done it. Hungry would wait until the man was home in the evening, then he would walk up and feel of a tree, walk around and measure it, then he would stand so that his star showed. He always carried a pocket full of legal blanks and he would unfold one as he talked with his victim. He usually settled for \$10 a tree. That was the best summer Hungry ever had on detective work."

"Well Emil," I says, "what is the moral of that story?"

"Moral?" he says, "there aint no moral to it, you wanted a story for the members, let them work out their own moral if they need one."

MRS. CONNIE SABATINI, formerly with the Sarver Landscape Nursery, Dallas, Tex., has almost completed plans for the formal opening of her own nursery after a year of preparatory work. The new nursery is known as the Sabatini Nursery & Landscaping and is located at Dallas. Mrs. Sabatini will carry blooming and landscaping shrubs and will specialize in iris, day lilies and bulbs.

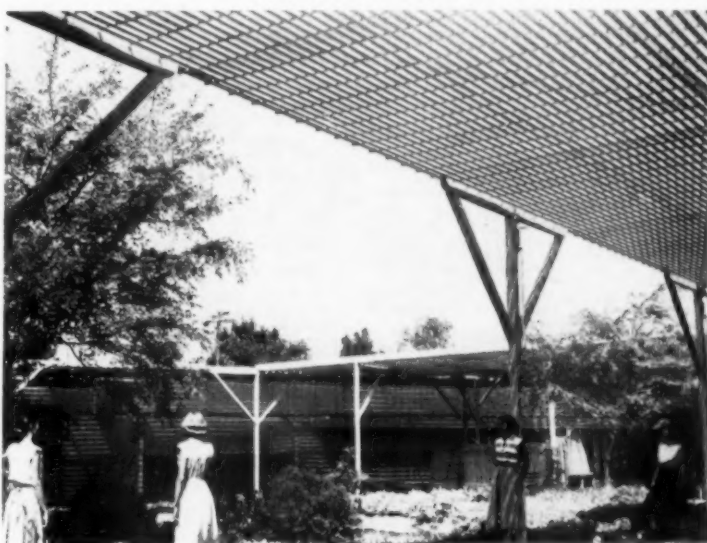
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1 1/2 to 2 ins.	8.50 per 100;	75.00 per 1000
2 ins. up	12.50 per 100;	115.00 per 1000

Double-flowering Fimbriatus Carnation-type,

6 Colors.

1 1/4 to 1 1/2 ins.	7.00 per 100;	60.00 per 1000
1 1/2 to 2 ins.	11.50 per 100;	100.00 per 1000
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Large Flowering	Each
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Bronze Ball, bronze and gold	.15
Crown of Gold, red and gold	.18
D-Day, rose-pink	.20
Gallant Fox, red	.14
Gemma Clara, yellow, cactus	.25
Gertrude Britton, brick red	.18
Golden Eclipse, yellow	.15
Improved Gold Medal, gold and red	.18
Improved Francis Larooco, yellow	.16
Jane Cowl, bronze-yellow	.25
Jean Kerr, white	.12
Jersey Beauty, pink	.18
Kentucky, orange	.22
Lady in Red, red, cactus	.25
Le Toreador, red	.14
Marie, salmon-pink	.20
Michigan White, white	.22
Mrs. James Albion, yellow	.15
Mrs. Geo. Le Boutillier, velvety carmine	.14
Mrs. I. De Ver Warner, lavender	.20
New York Market, white and lavender	.18
Orange Flame, reddish-orange	.22
Queen City, scarlet-pink	.20
Rose Ball, deep pink	.18
Ruby Taylor, vivid red	.25
Sherwood Peach, deep orange	.20
Supt. Amryhn, lavender-pink	.17
Thomas Edison, deep purple	.30
Victory, pink gold	.20
Watchung Giant, deep yellow	.15
White Jersey, white	.25
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Bishop of Landaff	.18
Grenadier, orange-red, red foliage	.20
Ike, dark red	.20
Lemon Drop, yellow	.18
Little Diamond, dainty pink	.20
White Fawn, white	.14
POM POM	
Bronze Beauty, golden-bronze	.16
Cardinal, bright red	.20
Catherine, yellow	.14
Golden Beauty, large, yellow	.18
Golden Queen, yellow	.14
Little Herma, red and white	.14
Mary Munns, lavender	.14
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Dante	.50	.85	...
Davis Rose Dawn	.60	.85	...
Debutante	.60	.85	...
Elena Noble	.50	.85	2.50
Eugene Lisse	.60	1.00	...
Finlandia	.50	.85	3.00
Gen. Dwight Eisenhower	.60	1.00	...
Gen. George Patton	.60	1.00	2.50
Gov. Earl Warren	.60	1.00	3.00
Haku-Tsuru	.60	1.00	3.00
Jordan's Pride	.50	.85	2.75
Joshua E. Young	.85	1.50	...
Julia Drayton	.60	.85	2.50
Laurel Leaf	.60	1.00	2.50
Madge Burt Miller	.60	1.00	3.00
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Mrs. Tingley	.60	1.00	3.00
Nagasaki	.60	1.00	2.50
Pink Ball	.50	.85	2.50
Pope Pius IX	.60	1.00	2.50
Pride of Descanso	.60	.85	3.00
Princess Bacciochi	.50	.85	2.50
Purity	.50	.85	3.00
Rosea Superba	.60	.85	...
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3 to 4 ft.	4.50
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Alba Plena, 3 to 3 1/2 ft.	4.50
Chandleri Elegans, 3 ft.	3.00
Chandleri Elegans, 3 to 3 1/2 ft.	4.50
Purple Dawn, 3 ft.	3.50
3 to 3 1/2 ft.	5.00
4 to 5 ft.	7.50
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Arborvitae Boothii (Best Globe), 6 to 8 ins. X.....	2.50	22.50
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Arborvitae Globosa, 6 to 8 ins. X.....	2.50	22.50
Arborvitae Nigra (Dark Green), 4 to 6 ins. X.....	2.00	17.50
Arborvitae Nigra (Dark Green), 6 to 8 ins. X.....	2.50	22.50
Arborvitae Nigra (Dark Green), 8 to 10 ins. X.....	3.25	27.50
Arborvitae Pyramidalis, 4 to 6 ins. X (\$165.00 per 1000)	2.00	17.50
Arborvitae Pyramidalis, 6 to 8 ins. X.....	2.50	22.50
Arborvitae Siberian, 4 to 6 ins. X.....	2.50	22.50
Arborvitae Siberian, 6 to 8 ins. X.....	3.25	27.50
Arborvitae Blota Bonita, 6 to 8 ins. X.....	2.50	22.50
Berberis Juliana, 4 to 6 ins. X.....	2.50	18.00
Buxus Sempervirens, 6 to 8 ins. X.....	2.25	20.00
Buxus Sempervirens, 8 to 10 ins. X.....	2.75	25.00
Buxus Suffruticosa (O. E. Dwarf), 4 to 6 ins. X.....	2.25	17.50
Buxus Suffruticosa (O. E. Dwarf), 6 to 8 ins. X.....	3.00	27.50
Euonymus Carrierei, 12 to 15 ins. X.....	18.00	
Ilex Burfordi, 6 to 8 ins. X.....	3.25	27.50
Ilex Burfordi, 3-in. pot.....	3.50	30.00
Ilex Crenata, 6 to 8 ins. X.....	2.00	17.50
Ilex Crenata, 8 to 10 ins. X.....	2.50	22.50
Ilex Crenata, 10 to 12 ins. X.....	3.00	27.50
Ilex Convexa Bullata, 4 to 6 ins. X.....	2.00	17.50
Ilex Convexa Bullata, 6 to 8 ins. X.....	2.50	22.50
Ilex Convexa Bullata, 8 to 10 ins. X.....	3.00	27.50
Ilex Rotundifolia, 4 to 6 ins. X.....	2.00	17.50
Ilex Rotundifolia, 6 to 8 ins. X.....	2.50	22.50
Ilex Rotundifolia, 8 to 10 ins. X.....	3.25	27.50
Juniperus Andorra, 4 to 6 ins. X.....	2.00	17.50
Juniperus Andorra, 6 to 8 ins. X.....	2.50	22.50
Juniperus Andorra, 8 to 10 ins. X.....	3.00	26.00
Juniperus Hetzi Glauca, 6 to 8 ins. X (\$215.00 per 1000)	2.50	22.50
Juniperus Hetzi Glauca, 8 to 10 ins. X.....	2.75	25.00
Juniperus Hetzi Glauca, 10 to 12 ins. X.....	3.75	32.50
Leucothoe Catesbaei (Drooping Leucothoe), 1-yr. X, flats.....	2.00	15.00
Ligustrum Lucidum (Waxleaf Privet), 4 to 6 ins. X.....	2.00	17.50
Ligustrum Lucidum (Waxleaf Privet), 6 to 8 ins. X.....	2.50	22.50
Ligustrum Japonica, 4 to 6 ins. X.....	2.00	17.50
Ligustrum Japonica, 6 to 8 ins. X.....	2.50	22.50
Regele's Privet, 4 to 6 ins. X.....	2.00	17.50
Pyraeantha Lalandi, 3-in. pot.....	4.00	30.00
Retinospora Ericoides, 4 to 6 ins. X.....	2.00	17.50
Retinospora Ericoides, 6 to 8 ins. X.....	2.50	22.50
Retinospora Goldust, 4 to 6 ins. X.....	2.00	17.50
Retinospora Goldust, 6 to 8 ins. X.....	2.50	22.50
Retinospora Obtusa Crippsi, 4 to 6 ins. X.....	2.00	17.50
Retinospora Obtusa Crippsi, 6 to 8 ins. X.....	2.50	22.50
Retinospora Plifera Aurea, 6 to 8 ins. X.....	2.50	20.00
Retinospora Plumosa, 4 to 6 ins. X.....	1.75	15.00
Retinospora Plumosa, 6 to 8 ins. X.....	2.00	17.50
Retinospora Squarrosa Veitchi, 6 to 8 ins. X.....	2.50	22.50
Taxus Andersoni, 6 to 8 ins. X.....	2.75	22.50
Taxus Cuspidata, 4 to 6 ins. X.....	2.00	17.50
Taxus Cuspidata, 6 to 8 ins. X.....	2.50	22.50
Taxus Hatfieldi, 4 to 6 ins. X.....	2.00	17.50
Taxus Hatfieldi, 6 to 8 ins. X.....	2.50	22.50
Taxus Hicksi, 4 to 6 ins. X.....	2.25	17.50
Taxus Intermedia, 8 to 10 ins. X.....	3.50	30.00
Taxus Vermeulen, 8 to 10 ins. X.....	3.00	27.50
ESHAM'S NURSERIES	Millboro, Del.	

## NURSERY STOCK

	Each
250 Ligustrum Lucidum, 3 to 5 ft.....	\$3.75
100 Canadian Hemlock, 5 ft.....	5.00
140 Pfitzer Juniper, 2 to 2½ ft.....	2.50
25 Golden Retinospora, 4 to 5 ft.....	5.00
50 Berberis julianae, heavy, 2 to 3 ft.....	4.00
250 Ilex microphylla, 2 to 3 ft.....	5.00
50 Pink Abelia, heavy, 3 to 4 ft.....	2.50
200 Princess Isobel Azalea, 2½ to 3 ft.....	3.50
75 Salmon Beauty Azalea, 2 to 2½ ft.....	2.50
100 India Alba Azalea, 12 to 15 ins.....	1.00
200 Mahonia Japonica, 18 to 24 ins.....	1.00
Many varieties, evergreens, boxwood, azaleas, etc.	

BOXWOOD NURSERIES  
Mocksville, N. C.

## EVERGREENS

	Each
80 Ford Juniper, 2 to 3 ft.....	\$1.75
100 Juniperus Sylvestris, 3 to 4 ft.....	2.25
150 Berckmans Arborvitae, 18 to 24 ins.....	1.50
400 Baker Arborvitae, 2 to 3 ft.....	1.25
300 Baker Arborvitae, 3 to 4 ft.....	1.75
100 Baker Arborvitae, 4 to 5 ft.....	2.00
50 Scotch Pine, 3 to 4 ft.....	3.00
100 Pfitzer Juniper, 18 to 24 ins.....	2.25
All Evergreens B&B, F.O.B. Nursery	
CRIDER BROTHERS NURSERY	
Fayetteville, Ark.	

## VARIETY SEEDLINGS FOR SPRING

	Per 100	Per 1000
Scotch Pine, 2-yr., 2 to 4 ins.....	\$2.00	\$10.00
Scotch Pine, 2-yr., 4 to 6 ins.....	4.00	20.00
Riga Scotch Pine, 2-yr., 2 to 4 ins.....	3.00	15.00
Riga Scotch Pine, 2-yr., 4 to 8 ins.....	5.00	25.00
Scotch Pine, 3-yr., 5 to 8 ins.....	6.00	30.00
Scotch Pine, 3-yr., 8 to 12 ins.....	8.00	40.00
Austrian Pine, 2-yr., 3 to 5 ins.....	4.00	20.00
American Red Pine, 2-yr., 2 to 3 ins.....	3.00	15.00
American Red Pine, 2-yr., 3 to 5 ins.....	5.00	25.00
American Red Pine, 2-yr., 3-yr., 4 to 8 ins.....	6.00	30.00
Mugho Pine (Dwarf), 2-yr., 1 to 3 ins.....	4.00	20.00
Mugho Pine (Dwarf), 3-yr., 3 to 7 ins.....	8.00	40.00
White Pine, 2-yr., 3 to 6 ins.....	4.00	20.00
Norway Spruce, 2-yr., 3 to 6 ins.....	4.00	20.00
White Spruce, 2-yr., 3 to 6 ins.....	5.00	25.00
Colorado Blue Spruce, 2-yr., 2 to 4 ins.....	5.00	25.00
Colorado Blue Spruce, 2-yr., 4 to 8 ins.....	7.00	35.00
Douglas Fir (Green), 2-yr., 3 to 5 ins.....	5.00	25.00
Douglas Fir (Green), 2-yr., 5 to 10 ins.....	8.00	40.00
Douglas Fir (Blue), 2-yr., 3 to 6 ins.....	6.00	30.00
Douglas Fir (Blue), 3-yr., 4 to 8 ins.....	7.00	

## TRANSPLANTS

Scotch Pine, 2-1, 3 to 6 ins.....	6.00	30.00
Scotch Pine, 2-2, 5 to 10 ins.....	10.00	
Colorado Blue Spruce, 2-2, 3 to 5 ins.....	10.00	50.00
Colorado Blue Spruce, 2-2, 4 to 8 ins.....	12.00	
Pennsylvania orders, add 1% sales tax as exemption certificate. Cash or 25% deposit with order. Balance, C.O.D. 5% discount on quantities of 25,000.		

R.F.D. 3 SAM DIBLE NURSERY Shelocta, Pa.

## SPECIAL

We are long on three items: Your gain is  
our loss. Per 100  
20,000 Blue Spire Arborvitae,  
very heavy, 2-yr., 2½-in. pots.....\$18.00  
20,000 Von Ehrton Juniper,  
very heavy, 2-yr., 2½-in. pots..... 18.00  
30,000 Ilex Cornuta Burfordi,  
1-yr., 2½-in. pots..... 17.50  
In 1000 lots. \$150.00 per 1000. These are  
the best plants we have produced in years.  
BRADSHAW'S NURSERY  
League City, Tex.

EVERGREEN LINERS AND CUTTINGS  
POT-GROWN AND TRANSPLANTS

	Each	Per 100	Per 1000
Arborvitae, American Dark Green, 1-yr. pots.....	\$0.20	\$0.18	
Arborvitae, Globe, 1-yr. pots.....	.30	.18	
Arborvitae, Pyramidal, 1-yr. pots.....	.20	.18	
Arborvitae, Pyramidal, 3-yr. pots.....	.26	.24	
Euonymus alatus compactus, 1-yr. pot.....	.18	.16	
Juniper, Blue Hets, 1-yr. pots.....	.23	.20	
Juniper, Blue Hets, 2-yr. pots.....	.27	.25	
Juniper, Gold Fitzer, 1-yr. pots.....	.24	.22	
Juniperus chinensis pfitseriana, 1-yr. pots.....	.24	.22	
Juniperus pfitseriana compacta, 1-yr. pots.....	.24	.22	
Juniperus virginiana burkii, 2-yr. pots.....	.37	.36	
Taxus hicksii, 2-yr. pots.....	.34	.22	

HEAVY-ROOTED CUTTINGS  
From flats, rooted outside in lath house.  
Delivery now or spring, 1954.

Each—Per 100 Per 1000

Arborvitae, American Dark Green.....	\$0.10	\$0.09
Arborvitae, elegantissima.....	.10	.09
Arborvitae, Pyramidal.....	.10	.09
Boxwood, Korean.....	.09	.08
Euonymus alatus compactus.....	.09	.08
Euonymus erectus.....	.07	.06
Euonymus maximus.....	.06	.05
Euonymus vegetus.....	.09	.08
Juniperus hetsi glauca.....	.11	.10
Juniper, Swedish.....	.10	.09
Taxus cuspidata.....	.11	.10
Taxus hatfieldi.....	.11	.10
Taxus intermedia.....	.11	.10
Taxus media hicksii.....	.11	.10

2 per cent discount and free packing for  
cash with order.

250 plants at 1000 rate.  
MIAMI NURSERY CO.  
Tipp City, O.

## HEAVY FIELD-GROWN PLANTS

	Per 100	Per 1000
Achillea Angel's Breath.....	\$15.00	\$135.00
Achillea Snowball.....	12.00	100.00
Ajuga repleta.....	15.00	135.00
Ajuga reptans rubra.....	15.00	135.00
Aster, Harrington's Pink.....	18.00	165.00
Aster, Mt. Everest (Improved).....	15.00	135.00
Chrysanthemum maximum Majestic.....	30.00	275.00
Chrysanthemum maximum Mark Riegel.....	25.00	225.00
Chrysanthemum maximum Mount Shasta.....	20.00	180.00
Delphinium, English Hybrids Mixed.....	15.00	135.00
Helium Chippendale.....	18.00	165.00
Heliopsis scabra incomparabilis.....	18.00	165.00
Hollyhock, Chater's Double Mixed.....	12.00	100.00
Hollyhock, Single Mixed.....	12.00	100.00
Iberis Little Gem.....	15.00	135.00
Lythrum Dromore Purple.....	18.00	165.00
Lythrum Morden's Pink.....	18.00	165.00
Nepeta mussini.....	15.00	135.00
Pentstemon barbatus Pink Beauty.....	18.00	165.00
Phlox subulata alba.....	15.00	135.00
Phlox subulata rosea.....	15.00	135.00
Salvia pitcheri.....	18.00	165.00
Stokesia Blue Moon.....	18.00	165.00
Tritoma Glow.....	20.00	180.00
Tritoma Primrose Beauty.....	20.00	180.00
Tritoma Royal Standard.....	20.00	180.00
Tritoma White Giant.....	20.00	180.00
Veronica amethystina Royal Blue.....	15.00	135.00
Veronica incana.....	15.00	135.00
Veronica rupestris Heavenly Blue.....	20.00	180.00
Viola odorata Royal Robe.....	15.00	120.00

Write for Complete Wholesale Price List  
KINGWOOD NURSERIES  
Mentor, O.

## EVERGREEN SEEDLINGS

	Per 100	Per 1000
Riga Scotch Pine (certified), 2-0, 6 to 12 ins.....	\$ 6.00	\$35.00
Tyrolean Mugho Pine (certified), 3-0, 5 to 8 ins.....	10.75	51.00
Colorado Blue Spruce, seed, hand picked from blue trees, 2-0, 3 to 6 ins.....	7.00	35.00
White Spruce, 3-0, 5 to 10 ins.....	9.00	45.00
American Red Pine, 4-0, 10 to 15 ins.....	12.25	59.75
Nikko Fir, 3-0, 4 to 8 ins.....	13.50	
Colorado Concolor Fir, seed, 2-0, 3 to 4 ins.....	13.50	
Upright Japanese Yew, from seed, 2-0, 3 to 7 ins.....	18.75	
Tyrolean Mugho Pine (certified), 3-0, very bushy, 3 to 6 ins., round.....	15.75	
Parcel post prepaid. Packing free. Remit- tance with order.		

NEUNER'S EVERGREEN NURSERY  
R.D. 3 Emaworth, Pa.

## DOUGLAS FIR

CHRISTMAS TREE TRANSPLANTS  
Douglas Fir (Pseudotsuga taxifolia glauca)  
2-2, TT, 6 to 12 ins. Rocky Mountain grown,  
ideal Christmas tree stock for spring, 1954  
delivery. \$35.00 per 1000. F.O.B. Missoula,  
Mont. Express charges approximately \$5.00  
per 1000.

J. HOFERT CO.  
Box 3346  
Seattle 14, Wash.

WINTER  
IS  
SALES TIME

with

AMERICAN NURSERYMAN

CLASSIFIED  
ADS

Send Your Copy Now!



## EVERGREENS—Continued

ROOTED CUTTINGS		
	Per 100	Per 1000
Arborvitae, Globe	\$0.09	\$0.08
Arborvitae, Green Nigra	.08	.07
Arborvitae, Pyramidal		
6 to 10 ins.	.09	.08
Juniper, Andorra, 4 to 8 ins.	.13	.12
Juniper, Irish, 4 to 8 ins.	.11	.10
Juniper, Pfitzer, 4 to 8 ins.	.13	.12
Taxus Browni	.09	.08
Taxus Capitata (Leaders)		
6 to 10 ins.	.16	.14
Taxus Cupidata, 5 to 8 ins.	.08	.07
Taxus Hicksi, 6 to 10 ins.	.09	.08
Taxus Andersoni, 5 to 8 ins.	.09	.08

1-YR. REDS		
	Per 100	Per 1000
Arborvitae, Green Nigra		
6 to 10 ins.	.17	.15
Taxus Cupidata, 5 to 10 ins.	.15	.14

PLANT BANDS		
	Per 100	Per 1000
Arborvitae, Pyramidal	.18	.16
Juniper, Pfitzer	.22	.20
Taxus Capitata (Leaders)	.24	.22
Taxus Cupidata	.18	.15
Taxus Hicksi	.18	.16

Grafted Spruce, 2½-in. pot, \$1.25 ea.  
Kosters and Moerheim Blues.  
50 at 100 rate. 300 at 1000 rate. Packing free. We will quote prices on quantities of 5000 or more.

DRAKE'S NURSERIES  
G-4342 Branch Road Flint 6, Mich.

EVERGREENS		
	Per 100	Per 1000
Scotch Pine, 2-0, 3 to 6 ins.	\$3.50	\$18.00
Scotch Pine, 2-0, 3 to 8 ins.	4.00	22.50
Riga Scotch Pine, 2-0, 3 to 8 ins.	3.50	22.50
Austrian Pine, 2-0, 3 to 5 ins.	3.50	20.00
Mugo Pine, 2-0, 3 to 4 ins.	3.50	20.00
3-0, 4 to 6 ins.	4.50	30.00
3-1, 4 to 6 ins.	7.00	50.00

Colorado Blue Spruce, 2-0,		
	Per 100	Per 1000
2 to 4 ins.	3.50	20.00
3-0, 3 to 6 ins.	5.00	35.00
2-1, 2 to 4 ins.	5.00	35.00
2-2, 4 to 6 ins.	6.50	45.00
Norway Spruce, 2-0, 2 to 6 ins.	3.50	20.00
2-2, 4 to 8 ins.	6.00	45.00
2-3, 8 to 10 ins.	9.00	75.00
White Spruce, 2-0, 2 to 6 ins.	4.50	35.00
Black Hills Spruce, 2-0, 2 to 4 ins.	3.50	20.00
Black Hills Spruce, 2-2, 4 to 6 ins.	6.00	45.00
Black Spruce, 3-0, 6 to 8 ins.	5.00	35.00

3 to 4 ins. 5.00 35.00  
Terms: 2½, cash with order. Complete list of lining-out stock and potted evergreens. Write.

JOHN G. ZELENKA  
R. 2 Grand Haven, Mich.

LINING-OUT MATERIALS		
	Per 100	Per 1000
Juniper, Pfitzer, heavy liners		
6 to 9 ins., T., bedding	\$20.00	
12 to 15 ins., TT., field-grown	60.00	
15 to 18 ins., TT., field-grown	75.00	
18 to 24 ins., TT., field-grown	90.00	
Taxus, Cupidata and Hicksi		
1-yr., out of 2-in. pot.	20.00	
2-yr., out of 2½-in. pot.	25.00	
2-yr., out of 3-in. pot.	35.00	
12 to 15 ins.	35.00	
bed-grown, 6 to 9 ins.	30.00	
bed-grown, 9 to 12 ins.	40.00	
rooted cuttings	12.00	

Spruce, Moerheim, grafts, out of 3-in. rose pots. 100.00

Juniper Grafts, 55.00

	Each	per 10
Canaert Meyer		
Hillbush Welch		
Mascala Glaucia		
Robin Hood Keteleeri		
Dundee Moffet		
Hill's Pyramidal York		

Write for price list on B&B stock. Packing and boxing at cost.

NEBRASKA NURSERIES, INC.

4815 O St. Lincoln, Neb.

## HEAVY FIELD-GROWN LINERS

	Per 100	Per 1000
500 Thuja Elegantiissima, 10 to 12 ins., XX	\$0.45	
200 Juniper, Hill's Golden, 13 to 15 ins., XX	.60	
1000 Juniperus Pfitzeriana, 9 to 12 ins., XX	.50	
1000 Juniperus Pfitzeriana, 13 to 15 ins., XX	.60	

These are heavy rooted and far above average. Fall or spring shipment.

Cash with order.

## DAMASCUS NURSERIES

Box 216 Damascus, O.

## BUXUS SUFRUTICOSA (English Boxwood)

	Per 100	Per 1000
4 to 6 ins.	\$25.00	\$220.00
6 to 8 ins.	32.00	300.00
8 to 10 ins.	42.00	400.00

Lining-out Stock of the Better Kinds

Write for Price List

GULF STREAM NURSERY, INC.

Jacques L. Legendre, Pres.

Wachapreague, Va.

## JUNIPER CUTTINGS

Unrooted cuttings of Pfitzer Juniper, 6 to 8 ins., long, not trimmed, \$10.00 per 1000.

Cash. Express or motor freight.

KRON'S FLOWER SHOP

4221 Grand Ave. Fort Smith, Ark.

## JUNIPER GRAFTS

Canaerti, Glaucia, Burki, Keteleeri, Chinese Mascala, Hetzi and Pfitzer, all on Virginiana understock. Price 50¢ each. Terms: One-fourth cash with order and balance before shipping date, plus boxing charges at cost. All cash with order earns free boxing. Grafts will be in short supply again this year. Be wise and order now. Remember, when better grafts are made, Crume will make them.

T. C. CRUME

NURSERY AND LANDSCAPING CO.  
Hy. No. 42, Phone: Florence 233, Florence, Ky.

## CHOICE EVERGREENS

	Per 1000
Red Cedars, 5 to 10 ins.	\$ 20.00
grafters	40.00
10 to 15 ins.	35.00
15 to 24 ins.	75.00
20 to 36 ins.	125.00
36 to 48 ins.	175.00

Please write for very low prices on our many evergreen varieties. B&B.

## ROLLER'S NURSERY

Rogers, Ark.

## FIELD-GROWN

## AZALEAS AND CAMELIAS

## ALL SIZES AND VARIETIES

## SPECIAL PRICE ON LARGE LOTS

## WRITE FOR LIST

## LONGWOOD NURSERIES

P. O. BOX 407

## MOBILE 3, ALABAMA

## SPRUCE AND PINE CONES

Norway Pine, \$1.00 per bu.

White Spruce, \$1.50 per bu.

Sample shipment, 25¢.

FRANK'S SEED CO.

Sturgeon Bay, Wis.

Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

## FRUIT and NUT TREES

## FRUIT TREES

A surplus of fine fruit and ornamental trees, grown for our own retail trade. All stock in up to or better than A.A.N. standards. Packing extra cost.

## PEACH

Champion, Cumberland, Elberta, Fairhaven, Golden Jubilee, Hale, Halchaven, Redhaven and Sun-Glo.

9/16-in. cal. 3 to 4 ft., 45¢

7/16-in. cal. 3 to 3 ft., 35¢

## PEAR

Bartlett, Duchess and Seckel

11/16-in. cal. 2-yr., 5 to 7 ft., 65¢

STAYMAN WINESAP APPLES, 11/16-in. cal. 2-yr., 5 to 7 ft., 55¢

STANLEY PRUNES, 11/16-in. cal. 2-yr., 5 to 6 ft., 60¢

9/16-in. cal. 2-yr., 4 to 5 ft., 50¢

CRAB APPLES, 2-yr., HEAVY BRANCHED

Bechtel's Pink, 11/16-in. cal. 3 to 4 ft., 65¢

9/16-in. cal. 2 to 3 ft., 50¢

Dolgo, 11/16-in. cal. 5 to 6 ft., 75¢

Eleyl (red), 11/16-in. cal. 5 to 6 ft., 75¢

9/16-in. cal. 4 to 5 ft., 60¢

Niedzwetzkyana (red), 11/16-in. cal. 5 to 6 ft., 75¢

9/16-in. cal. 4 to 5 ft., 60¢

## THE CLYDE NURSERY

Clyde, O.

## ATTENTION

Nurserymen and Landscape Architects!

We offer a limited quantity of five-year-old specimen Apple trees in McIntosh, Red and Yellow Delicious, Black Winesap, Black Jonathan, Early Harvest, Turkey, Anoka, Wealthy, Grimes Golden and Gano; Crab Apples, Lodi and Coronado.

Each

per 10

1 to 1½ ins. \$1.25

1½ to 2 ins. 1.60

2 to 3 ins. 2.75

3 to 4 ins. 4.00

4 to 5 ins. 5.00

5 to 6 ins. 6.00

6 to 7 ins. 7.00

7 to 8 ins. 8.00

8 to 9 ins. 9.00

9 to 10 ins. 10.00

10 to 11 ins. 11.00

11 to 12 ins. 12.00

12 to 13 ins. 13.00

13 to 14 ins. 14.00

14 to 15 ins. 15.00

15 to 16 ins. 16.00

16 to 17 ins. 17.00

17 to 18 ins. 18.00

18 to 19 ins. 19.00

19 to 20 ins. 20.00

20 to 21 ins. 21.00

21 to 22 ins. 22.00

22 to 23 ins. 23.00

23 to 24 ins. 24.00

24 to 25 ins. 25.00

25 to 26 ins. 26.00

26 to 27 ins. 27.00

27 to 28 ins. 28.00

28 to 29 ins. 29.00

29 to 30 ins. 30.00

## HARDWOOD CUTTINGS

WE HAVE very large cutting blocks listing more than 50 varieties of shrubs and trees. On account of the time necessary to process them it is urgently requested that we have your order early. We can furnish a certain amount for fall planting if we have your order soon.

	Per 1000
Aronia melanocarpa	\$ 4.00
Cornus amomum	4.00
Cornus lutea (yellow bark)	6.00
Cornus paniculata	4.00
Cornus sibirica	5.00
Diervilla trifida	4.00
Elder, canadensis	5.00
Elder, Cutleaf	4.00
Elder, Golden	6.00
Elder, red-berried	4.00
Forsythia intermedia	4.00
Forsythia ovata	4.00
Forsythia primulina	4.00
Forsythia spectabilis	4.00
Honeysuckle, bella abida	4.00
Honeysuckle, bella rosea	4.00
Honeysuckle, korolkowi	5.00
Honeysuckle, morrowi	4.00
Honeysuckle, tat. rosea	5.00
Honeysuckle, zabeli	5.00
Hydrangea A.G.	5.00
Hydrangea P.G.	5.00
Juniper, Andorra	15.00
Juniper Pfitzer	15.00
Juniper, Savin	15.00
Lilac, rothomagensis	5.00
Philadelphus Amalthee	5.00
Philadelphus Bouquet Blanc	4.00
Philadelphus grandiflorus	4.00
Philadelphus lemoinei	5.00
Philadelphus Mt. Blanc	4.00
Physocarpus opulifolius	5.00
Physocarpus opulifolius nanus	5.00
Poplar, Lombardy	4.00
Privet, Amur	4.00
Privet, Itoha	4.00
Snowberry, white	4.00
Sorbaria sorbifolia	4.00
Spiraea billardi	4.00
Spiraea froebeli	4.00
Spiraea thunbergi	4.00
Spiraea trichocarpa	4.00
Spiraea vanhouttei	15.00
Taxus canadensis	15.00
Taxus cuspidata	15.00
Thuja globosa	15.00
Thuja pyramidalis	15.00
Thuja, Siberian	15.00
Viburnum dentatum	4.00
Willow, dwarf Arctic	4.00
Willow, Niobe	4.00

Packed free. Cash with order, please.

Delivery in good order guaranteed.

SCOTCH GROVE NURSERY

Scotch Grove, Ia.

Start Your Offer Now

in the American Nurseryman

And Watch Sales Climb.

## HARDY PLANTS

## BLEEDING HEARTS

Per 100

Dicentra Spectabilis, 3 to 5.....\$25.00

Dicentra Spectabilis, 5 to 8 and up.... 40.00

Dicentra Eximia, 3 to 5..... 15.00

Dicentra Eximia, 5 to 8 and up..... 20.00

J. HENDRIKS, GROWER

PORTAGE, MICH.

## BLEEDING HEARTS

Per 10 Per 100

Dicentra Spectabilis, 5 to 9-eye. \$4.25 \$40.00

Dicentra Spectabilis, 3 to 5-eye. 2.75 25.00

PALACE GARDENS

P.O. Box 561 Kalamazoo, Mich.

## LYTHRUM MORDENS PINK

Per 100 Per 1000

1-yr., field-grown \$16.00 \$140.00

Liners 6.00 50.00

PLANE VIEW NURSERY

Newport, R. I.

## FLORETUM COLORFUL GARDEN MUMS

Bred for early blooming. Frost tolerance.

Winter hardiness. Ask for catalog.

PRAIRIE SOUTHWEST FLORETUM

Fall River, Kan.

## America's Best Source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

## PERENNIALS

New and standard kinds.

New wholesale list now ready.

CARROLL GARDENS

Box 18 Westminster, Md.

Pansies, perennials and rock plants in wide variety. Send for catalog.

## HOLLY

**HOLLY IN VARIETIES**  
 Hex Opaca (American Holly) named varieties. Nine female varieties; one weeping type; one yellow-berrying type; four male varieties. Plants of 1951 cuttings 55c; 1952, 45c.  
 Hex Aquifolium, Hardy English Holly, 55c. Minimum order of above 25 plants.  
 Hex Burfordi, 25c, Hex Cornuta, 25c.  
 Hex Glabra, 25c, Hex Convexa Bullata, 20c.  
 Minimum order of above 50 plants.  
 All stocky, heavy plants out of 3-in. pots or equivalent.

LOUIS DANK  
 1170 Broadway New York 1, N. Y.

## HOLLY

Hardy California Cutting-Grown  
 English Green, 3 ins., 45c each  
 English Green, 4 ins., 75c each  
 English Variegated, 3 ins., 55c each  
 English Variegated, rooted cuttings, \$20.00 per 100.  
 Minimum quantities, 50, 3 ins.; 25, 4 ins.  
 Cash. UNDESIGNED DISTRIBUTORS, INC.  
 Pipeline at Walnut Chino, Calif.

## JAPANESE HOLLY

Hex Crenata, 1-yr., S. Per 100 Per 1000  
 Hex Crenata, 2-yr., N. \$40.00 \$18.00 \$150.00  
 BROOKFIELD GARDENS  
 U.S. 46 Delaware, N. J.

## IVIES

BALTIC IVY, strong, clean stock. Rooted cuttings, 6c; \$55.00 per 1000. 2-in. pot, 10c; \$95.00 per 1000. Ready now. 25% down to reserve.

## STRATFORD GARDENS

Russell Breece Delaware, O.

Hardy ENGLISH IVY from stock surviving in our nursery at below zero temperatures. Strong, R.C., \$30.00 per 1000. Cash.  
 BABCOCK GARDENS  
 R. 3 Jamestown, N. Y.

## LINING-OUT STOCK

SHRUB AND EVERGREEN LINERS  
 In plant bands, except as noted. Packed upright in open top crates.

	Each
Pfitzer Juniper, 6 to 8 ins.	\$0.14½
8 to 10 ins.	.20
10 to 12 ins.	.26
Field-grown, trimmed, branched,	
11 to 14 ins., spread	.55
8 to 11 ins., spread	.40
Andorra Juniper, 8 to 10 ins.	1.4½
Andorra Juniper, 10 to 12 ins.	.20
Compact Pfitzer Juniper	.20
Dwarf Pfitzer Juniper (nana)	.22
Savin Juniper, 8 to 12 ins.	.20
Von Ehron Juniper	.20
Narrow Irish Juniper, 8 to 12 ins.	.20
Hill's Dark Green American Arborvitae	.30
Juniperus virginiana burki	.30
Juniperus chinensis Keteleeri	.30
Taxus cuspidata, 6 to 8 ins., 2-yr.	.20
Taxus cuspidata capitata,	
6 to 8 ins., 2-yr.	.20
Brown's Yew, 6 to 8 ins., 2-yr.	.26
Hex convexa (crenata bullata),	
6 to 8 ins., 2-yr.	.26
Euonymus patens, small leaf	.12½
Forsthia, Lynwood Gold	.20
Spiraea coccinea japonica	.14½
Pyracantha lalandi	.14½
Viburnum opulus nanum (Dwarf)	
Hedge Snowball	.14½
Weigela vaniciei	.16½
Lythrum, Morden's Pink	.12½
Verberna, Hardy Lavender-pink	.12½
Callicarpa dichotoma (Chinese)	
Beauty-berry, 4 to 6 ins.	.12½
Ligustrum sinense (Wayside Gardens variety)	.12½

## BARE ROOT

Euonymus patens, large leaf	.08
Euonymus patens, middle leaf	.10
Blue Leaf Arctic Willow, beds, br.	.06
Forsthia Spring Glory,	
4 to 6 ins., heavy	.07
Regel's Privet, 6 to 10 ins.	.05
Golden Vicary Variegated	.05
Weigela rosea	.06
Weigela Eva Rathke	.08
Weigela dwarf variegated	.08

All prices are at 1000 rate, 300 or more, total order. If total order is less than 300, 2c more on each plant. Book your order for spring.

MEININCH GREENHOUSES  
 Belt Highway and Faraon St., St. Joseph, Mo.

## LINING-OUT STOCK

	Per 100
Gardenia Fortunei, 6 to 8 ins.	10.00
Osmanthus Fragrans (Sweet Olive),	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
Magnolia Nigra, 8 to 12 ins.	25.00
Magnolia Nigra, 12 to 18 ins.	30.00
Hex Rotundifolia, 6 to 8 ins.	10.00
8 to 12 ins.	12.00
12 to 18 ins.	15.00

FLOWERWOOD NURSERY, INC.  
 Rt. 1, Box 139 Mobile, Ala.

## FIELD-GROWN LINERS

	Per 100	Per 1000
Ashford Juniper, 1-yr.		
6 to 12 ins.	\$0.12½	\$0.10
Ashford Juniper, 2-yr.		
6 to 18 ins.	.17½	.15
Fastigiate Juniper, 1-yr.		
6 to 12 ins.	.12½	.10
Fastigiate Juniper, 2-yr.		
6 to 18 ins.	.17½	.15
Irish Juniper, 1-yr.		
6 to 12 ins.	.12½	.10
Irish Juniper, 2-yr.		
6 to 18 ins.	.17½	.15
12 to 30 ins.	.20	.17½
Spiny Greek Juniper, 1-yr.		
6 to 12 ins.	.12½	.10
Compact Pfitzer Juniper, 1-yr.		
6 to 12 ins.	.17½	.15
Savin Juniper, 1-yr.		
6 to 15 ins.	.12½	.10
Abelia Grandiflora, 1-yr.		
6 to 8 ins.	.12½	.10
White Dogwood, 18 to 24 ins.	.50	.40
White Dogwood, 2 to 3 ft.	.60	.50
Cornus Florida Seedlings, 4 to 6 ins.	\$15.00	
per 1000; 6 to 12 ins.	\$20.00 per 1000.	
Double-flowering Peach, 2 to 3 ft.	\$0.20;	
3 to 4 ft.	\$0.30; 4 to 5 ft.	\$0.40.
Color: Red, White, Pink.		

We offer you well-rooted, well-graded, well-packed stock. Fifty or more plants at one hundred rate; three hundred or more at one thousand rate. No charge for packing when cash accompanies order. All orders will be appreciated and given prompt attention.

NAUGHER NURSERY  
Chase, Ala.SHADE TREES  
AND FOREST TREE SEEDLINGS

	Per 100	Per 1000
Acer dasycarpum, Silver Maple,		
6 to 12 ins., S.	\$1.75	\$10.00
12 to 18 ins., S.	2.50	15.00
18 to 24 ins., S.	3.00	25.00
2 to 3 ft., S.	5.00	35.00
3 to 4 ft., S., 2-yr.	7.00	50.00
Acer rubrum, Scarlet Maple,		
6 to 12 ins., S.	2.50	20.00
12 to 18 ins., S.	3.00	25.00
18 to 24 ins., S.	3.50	30.00
Acer saccharinum, Sugar Maple,		
4 to 6 ins., S.	1.50	10.00
6 to 12 ins., S.	2.50	20.00
12 to 18 ins., S.	3.00	25.00
Cercis canadensis, Redbud,		
4 to 6 ins., S.	1.00	7.50
6 to 12 ins., S.	1.50	10.00
12 to 18 ins., S.	2.00	15.00
18 to 24 ins., S.	2.50	20.00
2 to 3 ft., S.	3.00	25.00
3 to 4 ft., S.	4.00	35.00
Mimosa, Silk Tree, 3 to 6 ins., S.	3.00	20.00
6 to 12 ins., S.	3.50	25.00
12 to 18 ins., S.	4.00	35.00
Ulmus americana, American Elm,		
4 to 12 ins., S.	1.50	10.00
12 to 18 ins., S.	2.00	15.00
18 to 24 ins., S.	3.00	25.00
Ulmus pumila, Chinese Elm,		
4 to 12 ins., S.	1.50	10.00
12 to 18 ins., S.	2.00	15.00
18 to 24 ins., S.	3.00	25.00
2% cash discount with order, or send 25c down for C.O.D. order.		

GLOBE NURSERIES  
McMinnville, Tenn.

## LINING-OUT STOCK

Quality-grown lining-out stock.	6 to 8	8 to 12
Price per 100.	ins.	ins.
Buxus Harlandi	\$12.50	\$17.50
Buxus Japonica	12.50	17.50
Camellia Sasanqua, in variety	12.50	15.00
Feljoa Sellowiana		
(Pineapple Guava)	12.50	15.00
Gardenia Fortunei		
Gardenia Myrtary	10.00	10.00
Gardenia Radicans	7.50	10.00
Hex Cornuta Burfordi	17.50	20.00
Hex Crenata Convexa	15.00	17.50
Hex Crenata Rotundifolia	15.00	17.50
Laurel Cherry, transplanted	10.00	
Laurel Cherry, seedlings	7.50	
Magnolia Grandiflora	10.00	12.50

Write for our new price list, just out. Also list of container-grown stock.

BLACKWELL NURSERIES, INC.  
 Semmes, Ala.

## LINING-OUT STOCK

Strong bed-grown plants, 1, 2 and 3-year-old liners of Chamacyparis, Hex, Juniperus, Ligustrum, Buxus, Thuja, Taiga, Viburnum and others. We are also growing about 100 acres of finished landscape materials. Write for our wholesale list of liners and finished material.

DEL-MAR-VIA NURSERIES  
 Lincoln, Del.

PYRACANTHA COCCINEA LALANDI  
 Hardy stock from selected fruiting plants. 2½-in. pots, T., 6 to 8 ins., bushy, \$22.50 per 100; 2½-in. pots, T.L., 8 to 10 ins., bushy, \$32.50 per 100.

Well-rooted. Spring shipment. Cash.  
 BABCOCK GARDENS  
 Rt. 3, Jamestown, N. Y.

## MAGNOLIA SOULANGEANA

Quality 2-yr. old liners.	Per 100
3-in. pot	\$25.00
8 to 12 ins., C., bed-grown	25.00
12 to 18 ins., C., bed-grown	30.00
18 to 24 ins., C., bed-grown	35.00
2 to 3 ft., C., bed-grown	50.00

Quotations on larger quantities given on request.

OVERLOOK NURSERIES, INC.  
 Crichton Station Mobile, Ala.

## RED-LEAVED JAPANESE BARBERRY

We have a nice lot of this Barberry this season at very special prices.

	Per 100	Per 1000
6 to 9 ins., 2-yr., S.	\$6.00	\$50.00
9 to 12 ins., 2-yr., S.	7.50	65.00

Special prices on 5,000 or more.

A copy of our spring, 1954, wholesale, 76-page catalog sent on request.

THE TINGLE NURSERY CO.  
 Pittsfield, 12, Md.

## DIRECT FROM GERMANY

Fifty million evergreens, shrubs, roses and lining-out stock in wide assortment. First quality. America's lowest prices. If your orders for spring are already placed, try a small quantity and you will see the difference in price and quality. One try and you will always buy. Write today.

PAUL MODEREGGER  
 4630 Dupuis Ave. Montreal P. Que., Canada

## ORNAMENTAL ARISTOCRATS

Choice varieties not found in many catalogs as well as many of the old favorites. Established in 1921 and still growing strong. Fall and spring catalog sent on request to members of the trade only. Special on Althaea, Dogwood, Japonica, Holly, Taxus and Wistaria.

JOHN VERMEULEN & SON, INC.  
 Neshaic Station, N. J.

## FLORETUM OUTSIDE-GROWN LINERS

Many scarce and rare trees, shrubs, evergreens and perennials. Ask for catalog.

PRAIRIE SOUTHWEST FLORETUM  
 Fall River, Kan.

## PANSIES

## PANSY AND SWEET WILLIAM PLANTS

	Per 1000
Swiss Giants, mixed	\$6.00
Sweet Williams, double, mixed, tall or double, mixed, short	4.00

PALACE GARDENS  
 Kalamazoo, Mich.

## PEONIES

## GRAFTED TREE PEONIES

## LAKE SAMMAMISH EVERGREEN NURSERY

Rt. 1, Box 79 East Stanwood, Wash.

## RHODODENDRONS

## GRAFTED HYBRID RHODODENDRONS

1000 2-yr. Liners. Lath House Grown, 1-yr. Red — Caractacus, Dr. Dresselhuys, Van Weerden Poelman, Van der Hoop; Rony Lilac-Boursault; Dark Purple—Lee's Dark Purple.

Bed-run, 10 to 15 ins., \$1.50 each.

Booking for spring, 1954 delivery. Beetle zone. Nursery pickup or postage collect.

WINDY HILL NURSERIES  
 Phone: 32741 Saltsburg, Pa.

## RHODODENDRON FOR LANDSCAPING

Large selection of grafted named varieties. Excellent stock. Send for list.

## STATE FLOWER NURSERY

Rt. 2, Box 5, Bethel, Wash.

## HYBRID RHODODENDRONS

Best Named Varieties  
 Sizes, 12 to 36 ins.

RICKERT NURSERIES, Morrisville, Pa.

Start Your Offer Now  
 in the American Nurseryman  
 And Watch Sales Climb.

## ROSEBUSHES

## ROSA MULTIFLORA JAPONICA

	Per 1000
150,000 3 to 5 mm, 12 to 16 ins.	\$16.00

Small plants, under 2 mm, or below 8 ins., bulk bundles of 200 to 500

—count for shipment estimated by weight.

10,000 to 40,000..... 4.00

50,000 up..... 3.00

Prices, F.O.B. Chebanse, cash with order, please.

RICHARD L. GREEN Chebanse, Ill.

## ROSEBUSHES

We Sell Nothing but ROSEBUSHES

The Very EXCELLENT Service is FREE

## NEW LONDON ROSES

Box 876 Overton, Tex.

## ROSES—Continued

## SPRING LIST, 1954

No BETTER Rosebushes can be had at any price. Good roses will be sold at any cheaper. Sold only in multiples of 10 of grade and variety. (We do not break bundles). Order now or later, our modern facilities enable us to hold stock and ship as needed.

RED		YELLOW	
Poinsetta		Yellow Tallman	
Red Radiance		Numa Fay	
Etoile de Hollande		Golden Charm	
Syracuse		McGredy's Yellow	
Rouge Mallerin		Golden Ophelia	
Christopher Stone		Mrs. du Pont	
Grenoble		Souer Therese	
Ami Quinard		Improved du Pont	
E. G. Hill		Luxembourg	
Charles K. Douglas		Betty Grace Clark	
Sensation		Yellow Condessa	
McGredy's Scarlet		Golden Sastago	
Red American Beauty		Yellow Sastago	
Gen. MacArthur		POLYANTHA AND FLORIBUNDA	
Night		Baby Chateau	
Mary Hart		Floradora	
Crimson King		Golden Salmon	
PINK		Ideal	
Editor MacFarland		Kirsten Poulsen	
Briarcliff		Mrs. R. M. Finch	
Columbia		Red Lafayette	
Pink Radiance		Red Ripples	
Mrs. Chas. Bell		CLIMBERS	
Betty Uprichard		Red American Beauty	
Shell Pink Radiance		Blaze	
Dainty Bess		Mary Hart	
Margaret McGredy		Etoile de Hollande	
The Doctor		Paul's Scarlet	
Picture		Red Tallman	
TWO-TONE		Rouge Mallerin	
Tallman		Red Radiance	
Pres. Hoover		Pink Radiance	
E. N. Perkins		Golden Charm	
Condessa de Sastago		Mrs. du Pont	
WHITE		Caledonia	
White American		Tallman	
Beauty		Cecile Brunner	
Snow Queen			

WRITE for our selection of choice patent rosebushes.

1954 PRICES: Bare root, (F.O.B. here)

WHOLESALE STANDARD PRICES:

RACH	10-50	50-500	500 up
No. 1	35c	35c	35c
No. 1 1/2	32c	30c	28c
No. 2	26c	24c	22c

Prepackaged, individually wrapped, paraffin-dipped and picture tag attached for 10c extra per bush.

No Charges for Boxing.

CASH with order or 25% deposit and balance C.O.D.

MARTIN'S ROSE NURSERY

P.O. Box 155 (Tel. 713) Arp, Tex.

NORTHERN OHIO GROWN ROSES

Top-quality plants from one of Ohio's oldest growers. Now properly matured and ready for shipment. Prices are for No. 1 grade. No. 1 1/2 available at 20 per cent less.

PATENTED HYBRID TEAS		100-
Each, 10-19	20-99	249
Blanche Mallerin, white	1.10	1.00 .95
Buccaneer, new yellow	1.50	1.37 1.30
Capistrano, rose-pink	1.25	1.12 1.05
Charlotte Armstrong	1.25	1.12 1.05
Chrysler Imperial, 1/2 only	1.50	1.37 1.30
Forty-Niner, bicolor	1.40	1.25 1.20
Fred Howard, yellow bicolor	1.40	1.25 1.20
Helen Traubel, salmon	1.50	1.37 1.30
Horace McFarland		
buff-salmon	1.10	1.00 .95
Lowell Thomas, yellow	1.10	1.00 .95
Mirandy, deep red	1.25	1.12 1.05
Mission Bella, shrimp-pink	1.25	1.12 1.05
Nocturne, dark red	1.10	1.00 .95
Peace, yellow and pink	1.40	1.25 1.20
Sutter's Gold, gold bicolor	1.25	1.12 1.05
Suzon Lotthe, pearl-pink	1.40	1.25 1.20
Taffeta, rose and buff	1.10	1.00 .95
Tallyho, carmine-buff	1.10	1.00 .95
FLORIBUNDAS		100-
Each, 10-49	50-199	200 up
Crimson Rosette, deep red	1.00	.88 .80
Floradora, cinnabar-red	.65	.60 .55
Irene of Denmark, white	1.10	1.00 .95
Lafayette Improved, 1/2 only	.65	.60 .55
Margo Koster, No. 1 1/2 only	.65	.60 .55
Poulsen's Bedder, new pink	.90	.75 .70
Red Ripples, Christmas-red	.65	.60 .55
Tapis, Tyrian-rose	.90	.75 .70
STANDARD HYBRID TEAS		100-
Each, 10-49	50-199	200 up
2-year, No. 1	1.00	.85 .80
2-year, No. 1 1/2	.50	.45 .40
Condessa de Sastago, bicolor		
Frau Karl Druschki, white H. P.		
Golden Sastago, yellow		
Joanna Hill, yellow		
McGredy's Ivory, white		
Pink Dawn, pink		
Poinsettia, red		
Sister Therese, yellow		
CLIMBERS		100-
Blaze, No. 1 only		
New Dawn		

Note: Packing free for net cash with order.

Usual terms to those known to us.

THE COLE NURSERY CO.

Since 1881

"Everything That's Good and Hardy"

Painesville 16, O.

## ROSES

Finest quality, two-year, field-grown roses, dug and shipped fresh from our own fields.

NOTE: Our roses are tied in bundles of ten of a grade and variety. If you want us to break bundles, please add 5c per bush.

TERMS: Cash or 25% cash with order and balance C.O.D.

## PRICES

No. 1	35c each
No. 1 1/2	30c each
No. 2	25c each

250 or more deduct 5c per plant.

Above prices F.O.B. Lindale or Tyler, Texas.

RED		WHITE	
Red Radiance	White American	Beauty	
Ami Quinard	F. K. Druschki	Caledonia	
Rouge Mallerin	P. A. Viktoria	Snowbird	
Frances Scott Key	Grenoble	YELLOW	
Syracuse	Chas. K. Douglas	Souther Therese	
E. G. Hill	Luxembourg	Golden Sastago	
Grenoble	Betty Grace Clark	Yellow Tallman	
Chas. K. Douglas	Golden Sastago	Golden Dawn	
Poinsetta	Red American Beauty	Golden Charm	
Red American Beauty	Etoile de Hollande	CLIMBERS	
Etoile de Hollande	Grootendorst	Red American Beauty	
Grootendorst	PINK		Blaze
Pink Radiance	Editor McFarland	Paul Neyron	
Editor McFarland	Briarcliff	Caledonia	
Paul Neyron	Columbia	Pres. Hoover	
Briarcliff	POLYANTHAS AND		K. A. Viktoria
Columbia	FLORIBUNDAS		Red Radiance
POLYANTHAS AND	Improved Lafayette	Paul's Scarlet	
FLORIBUNDAS	Else Poulsen	Red Tallman	
Improved Lafayette	Ideal	Poinsettia	
Else Poulsen	TWO-TONE		Rouge Mallerin
Ideal	Tallman	White American	
Poinsettia	Betty Uprichard	Tallman	
Rouge Mallerin	Edith Nellie Perkins	Mrs. P. S. du Pont	

Box 625 Phone 12F4W Lindale, Texas

## ROSA MULTIFLORA JAPONICA

Upright, thorny type. Heavy-branched.

15 to 24 ins. in height, \$25.00 per 1000.

24 to 36 ins. in height, \$50.00 per 1000.

Plants cut back to approximately 12 ins.

for shipment unless requested otherwise.

Price F.O.B., Rock Hill. Includes cost of packing.

## ROCK HILL LANDSCAPE CO.

428 Pickens Ct.

Rock Hill, S. C.

## BLAZE and PAUL'S SCARLET—Extra

heavy XXX. Our own grown. \$75.00 per 100.

No. 1 grade, \$55.00, No. 1 1/2 grade, \$32.00.

No. 2 grade, \$22.50.

MAGNA CHARTA—XXX, \$60.00, XX, \$45.00, 1 1/2 grade, \$30.00.

If interested in large quantities, ask for further quotation and list of roses still available.

GERARD K. KLYN, INC.

Mentor, Ohio

## ARF-GROWN ROSEBUSHES with life insurance

Bare root for landscape, beautifully packaged for display, or direct-to-garden mail order. Service to nurseries for 30 years.

Write for prices list on business letterhead please.

ARF NURSERY CO., Box 867-A, Tyler, Tex.

## ROSEBUSHES

2-yr. plants, grown right, graded right, packed right. Very complete assortment of varieties. Write for prices and book your requirements now.

ROSEBUSHES

D. L. Thompson, owner Tyler, Tex.

## ROSEBUSHES

Good assortment, 2-yr., budded. No. 1 grade, \$35.00 per 100; No. 1 1/2 grade, \$26.00 per 100; No. 2 grade, \$20.00 per 100.

P. O. TATE NURSERY

Since 1935

Rt. 3 Tyler, Tex.

## ROSEBUSHES

Price and quality make this your best rose buy. A list is reserved for you—send for it today.

MARTIN'S ROSE NURSERY

P.O. Box 155 Phone 713 Arp, Tex.

# For \$3.50

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

## AMERICAN NURSERYMAN

## NORTHERN-GROWN ROSES

For over 30 years a consistent, reliable source of good, northern-grown roses.

Carefully dug, conscientiously graded. Our 1 1/2-grade are ideal for potting for spring sales.

Your list of requirements for quotation will be appreciated. Upon request, price list will be mailed promptly.

GERARD K. KLYN, INC.

Mentor, O.

## SEEDLINGS

## SEEDLINGS AND TRANSPLANTS

Abies douglasii Per 100 Per 1000

3-yr., S., 4 to 8 ins. .... \$ 6.00 \$ 30.00

4-yr., S., 6 to 10 ins. .... 10.00 40.00

4-yr., T., 4 to 8 ins. .... 10.00 60.00

Picea canadensis

4-yr., S., 4 to 15 ins. .... 5.00 30.00

4-yr., S., 8 to 15 ins. .... 6.00 35.00

T., 4 to 10 ins. .... 8.00 50.00

Picea excelsa

2-yr., S., 3 to 5 ins. .... 4.00 20.00

3-yr., S., 6 to 12 ins. .... 6.00 35.00

3-yr., S., 12 to 18 ins. .... 10.00 65.00

4-yr., S., 6 to 12 ins. .... 6.00 35.00

4 yr., S., 12 to 18 ins. .... 10.00 65.00

4-yr., T., 4 to 8 ins. .... 8.00 50.00

4-yr., T., 6 to 12 ins. .... 10.00 65.00

Picea pungens

2-yr., S., 2 to 4 ins. .... 4.00 25.00

3-yr., S., 4 to 8 ins. .... 5.00 35.00

4-yr., S., 4 to 8 ins. .... 5.00 35.00

3-yr., T., 3 to 6 ins. .... 6.00 35.00

4-yr., T., 6 to 10 ins. .... 15.00 120.00

Pinus nigra

2-yr., S., 3 to 6 ins. .... 3.50 25.00

3-yr., S., 6 to 12 ins. .... 8.00 35.00

3-yr., T., 3 to 6 ins. .... 8.00 35.00

4-yr., T., 4 to 8 ins. .... 10.00 60.00

4-yr., T., 8 to 12 ins. .... 10.00 65.00

Pinus sylvestris

2-yr., S., 2 to 4 ins. .... 3.50 20.00

Pinus ponderosa

3-yr., S., 4 to 8 ins. .... 3.50 20.00

Sorbus aucuparia

1-yr., 12 to 18 ins. .... 8.00 50.00

1-yr., 18 to 24 ins. .... 10.00 60.00

Special discount on the above seedlings in quantity lots. Complete catalog on request.

HEASLEY'S NURSERIES

Freeport Rd., Rt. 3

Butler, Pa.

## SHRUBS and TREES

## FLOWERING CRAB APPLES and PLUMS

Patented: Crimson Brilliant; strong 2-yr. trees, \$3.50 each; 3 for \$9.75; \$25.00 per doz.

New: 1-yr. budded Almey, Charlotte, Dorothea, Patricia, Evelyn, Irene, Katherine, Kingsmere, Magdeburg, M. Oyama, Nieuwlandiana, Prince Georges, Redfield, Redford, Van Eseltine, Bob White. 2 to 3 ft., \$1.00; 3 to 4 ft., \$1.35; 4 to 5 ft., \$1.65; Whips 25% less.

Older, Good: 1-yr. budded Aldenham, Arnold, atosanguinea, Dolgo floribunda, Hopa, hupehensis, micromalus, Parkman, purpurea, Scheidecker, spectabilis riversi, xumi calocarpa. 2 to 4 ft., 80c; 4 to 5 ft., \$1.00; Whips 25% less.

3-yr., Transplanted: Hopa, Eley, Aldenham, micromalus, Scheidecker, atosanguinea, Magdeburg, Charlotte, 5 to 6 ft., \$1.25; 6 to 7 ft., \$1.50; 7 to 8 ft., \$1.75.

1-yr. Grafts: Almey, Dorothea, Lemnole, Katherine, Van Eseltine, Whips 12 to 18 ins., 45c; 18 to 24 ins., 50c; 2 to 3 ft., 60c; 3 to 4 ft., 75c; 4 to 5 ft., 90c.

THUNDERCLOUD P. L. PLUM: Tree form, well-branched; 4 to 5 ft., 80c; 5 to 6 ft., \$1.00.

Packing additional at cost. For less than 10 of a kind add 10%. Shipment can be made any time after about Dec. 1.

SIMPSON ORCHARD CO.

BOX 88 VINCENNES, IND.

## ORIENTAL MAGNOLIA

Per 100

Magnolia Soulangeana, 2 1/2-in. pot. .... \$30.00

Magnolia Soulangeana Nigra, 2 1/2-in. pot. .... 25.00

Each

Magnolia Soulangeana Nigra, field-grown bare-root, 2 to 3 ft. .... \$1.25

3 to 4 ft. .... 2.00

WELCH BROS. NURSERY, INC.

Wilmer, Ala.

## ABELIA GRANDIFLORA

Heavily branched, excellent color. Grown on new land.

Per 100 Per 1000

2 to 3 ft. .... \$25.00 \$300.00

3 to 4 ft. .... 45.00 375.00

4 to 5 ft. .... 60.00 500.00

Special discount on carload or truck lots.

CHIPOLA NURSERIES

Marianna, Fla.

## 1000 EUONYMUS PATENS

24 to 30 ins., B&B. .... \$2.25 ea.

30 to 36 ins., B&B. .... 2.75 ea.

2000 EUONYMUS PATENS

18 to 24 ins., Bare-root. .... .85 ea.

15 to 18 ins., Bare-root. .... .50 ea.

1000 UPRIGHT BLUE JUNIPERS

Sheared, compact, 4 to 5 ft., B&B. .... 6.00 ea.

BRUNING'S NURSERIES

Higginsville, Mo.



## SHRUBS AND TREES

	Per 1000	Per 100
Berberis thunbergii, 2-yr., S.		
9 to 12 ins.	\$ 50.00	.....
Berberis thunbergii, 2-yr., S.		
12 to 18 ins.	\$ 80.00	.....
Berberis thunbergii atropurpurea, 2-yr., S. 9 to 12 ins.	70.00	.....
Berberis thunbergii atropurpurea, 2-yr., S. 12 to 18 ins.	90.00	.....
Callicarpa giraldi, 12 to 15 ins.		25.00
Cornus alba variegata,		
18 to 24 ins.		35.00
Cornus goucheana, 2½ to 3 ft.		35.00
Cornus florida, well-branched,		
2 to 2½ ft.		60.00
Cornus florida rubra, on own roots,		
18 to 24 ins.		85.00
Cornus florida rubra, 2 to 3 ft.		120.00
Cotoneaster wardii, 15 to 21 ins.		50.00
Cotoneaster divaricata,		
2 to 2½ ft.		30.00
Cydonia in the latest novelties,		
Crimson and Gold, Kermesina semiplena and Rowallana seedling, strong plants on their own roots.		100.00
Deutzia gracilis, 12 to 15 ins.		30.00
Deutzia kalmiedora,		
1½ to 2 ft.		60.00
Fagus sylvatica atropurpurea riversi, 2 to 3 ft.		175.00
Forsythia Lynwood Gold, 1-yr., 2 to 2½ ft.		40.00
Forsythia Spring Glory, 1-yr., 2 to 2½ ft.		30.00
Hamamelis mollis, 2 to 2½ ft.		125.00
Hamamelis mollis, 2½ to 3 ft.		175.00
Magnolia soulangeana, fine plants with a good root system, 2 to 2½ ft.		80.00
Magnolia soulangeana nigra, 15 to 18 ins.		80.00
Philadelphus Belle Etoile, 1½ to 2 ft.		50.00
Philadelphus burfordensis, 2 to 2½ ft.		60.00
Philadelphus coronarius, 2 to 3 ft.		60.00
Philadelphus coronarius aureus, 12 to 15 ins.		25.00
Potentilla fruticosa farreri, 12 to 15 ins.		40.00
Potentilla fruticosa farreri pendula, 9 ins.		50.00
Potentilla fruticosa farreri, 12 to 15 ins.		40.00
Privet Californica, 2-yr., 2½ to 3½ ft.	125.00	.....
Prunus triloba, 2½ to 3 ft.		70.00
Pyraecantha coccinea islandi, 1-yr., S. 3 to 5 ins.		10.00
Rhus cotinus folius purpureus, 1½ to 2½ ft.		125.00
Spiraea arguta, 2 to 2½ ft.		45.00
Spiraea japonica coccinea, 9 ins.		40.00
Spiraea prunifolia, 1½ to 2 ft.		30.00
Syringa vulgaris, 2-yr., S. 12 to 15 ins.		80.00
Viburnum bittichenense, 18 to 21 ins.		225.00
Viburnum burkwoodii, 18 to 21 ins.		150.00
Viburnum tomentosum plicatum grandiflorum, 18 to 24 ins.		65.00
Weigelia middendorffiana, 1½ to 2 ft.		25.00
Weigelia Newport Red, 1½ to 2 ft.		20.00

Terms as usual. Wholesale price list now ready. Write for your copy today.

## KLUI'S NURSERIES

Phone: Terhune 5-2548, Pompton Plains, N. J.

## LINING-OUT STOCK

	Per 100	Per 1000
Aronia arbutifolia brilliantissima, 1-yr., sdgs., 4 to 6 ins.	\$ 6.00	\$ 60.00
Deutzia gracilis, 4 to 6 ins.	6.00	60.00
6 to 8 ins.	8.00	75.00
1-yr., field-grown, X, 8 to 12 ins.		35.00
Euonymus coloratus, H. C., 6 to 8 ins.	8.00	75.00
Pieris japonica, 1-yr., X, 3 to 6 ins.	12.00	100.00
Pieris japonica, 2-yr., bed-grown, XX, 6 to 8 ins.		25.00
Euonymus vegetus, Liners, 4 to 6 ins.	8.00	75.00
Liners, 4 to 6 ins.	10.00	90.00
Forsythia spectabilis, Liners, 4 to 6 ins.	6.00	60.00
Liners, 8 to 12 ins.	8.00	75.00
Forsythia Spring Glory, Liners, 4 to 6 ins.	6.00	50.00
Liners, 8 to 12 ins.	10.00	90.00
Field-grown, 2 to 3 ft.	40.00	.....

## PLANE VIEW NURSERY

Newport, R. I.

## PRIVET

	Per 100
Amur River and Ibolium	
12 to 18 ins.	\$10.00
18 to 24 ins.	13.00
This is good strong, 2-yr. stock, grown for our own landscape business, cut back at 1-yr., making strong, clean plants.	

## THE CLYDE NURSERY

Clyde, O.

## LINING-OUT STOCK

Fall, 1953—Spring, 1954

	Per 100	Per 1000
500 Acer Platanoides, 1-yr. sdgs.	\$ 7.00	\$ 60.00
300 Ampelopsis Vetchi, 1-yr. sdgs.	5.50	45.00
2150 Azalea Mollis, 2-yr. T.	25.00	200.00
16,000 Berberis thunbergii, 2-yr. T., FR.	7.50	65.00
1000 Cornus Florida, grafting size	6.00	50.00
3500 Cornus Koussa, 1-yr. sdgs.	5.50	45.00
1000 Cotoneaster Divaricata, 2-yr. T. 9 to 12 ins.	30.00	250.00
6000 Cydonia Japonica, 1-yr. sdgs.	4.50	35.00
1440 Euonymus Radicans, 2-yr. TT, FR.	35.00	300.00
300 Euonymus Radicans Carrierel, 2-yr. TT, FR.	35.00	300.00
500 Ginkgo Biloba, 1-yr. sdgs.	7.00	60.00
1000 Hydrangea P.G., 1-yr., 9 to 12 ins.	15.00	140.00
1000 Hydrangea P. G., 2-yr. T., 12 to 15 ins., FR.	30.00	250.00
3500 Koebeuteria Paniculata, 1-yr. sdgs.	7.00	60.00
450 Picea Excela, 4-yr. T., 9 to 12 ins., FR.	35.00	300.00
3700 Pieris Japonica, 1-yr. T.	10.00	90.00
6450 Pieris Japonica, 2-yr. TT	30.00	250.00
1000 Quercus Borealis, 1-yr. sdgs.	7.00	60.00
1500 Quercus Palustris, 1-yr. sdgs.	7.00	60.00
1500 Rosa Rugosa, 1-yr. sdgs.	5.50	45.00
1000 Rosa Rugosa, 6 to 8 ins.	8.50	75.00
1000 Rosa Rugosa, 9 to 12 ins.	12.50	110.00
2000 Taxus upright, 1-yr. sdgs.	15.00	125.00
1000 Thuja Occidentalis Pyramidalis, 2-yr. grafts, FR.	70.00	600.00
1000 Viburnum vulgaris, 1-yr. sdgs.	5.50	45.00
1500 Wistaria Sinensis, 1-yr. sdgs.	4.50	35.00
—Once Transplanted		
—Twice Transplanted		
—Samples mailed on request—		
BOULEVARD NURSERIES		
Newport, R. I.		

## VIBURNUM CARLESI

This is the first time since the beginning of the war that we have been able to offer a batch of Viburnum carlesii seedlings. All these years we have not been able to buy any seed and still cannot buy any but can offer these seedlings because we have our own seed by this time. We are sold out of the 8 to 12-in. grade by now but still have some nice, strong seedlings with good roots in:

	Per 100	Per 1000
Strong, 2-yr., S., 6 to 8 ins.	\$20.00	\$175.00
Strong, 2-yr., S., 4 to 6 ins.	15.00	125.00

C. HOOGENDOORN Newport, R. I.

## CHINESE CHESTNUTS (U.S.D.A. STOCK)

	Each	Each
1-yr. seedlings, Per 100		
12 to 15 ins.	\$0.30	\$0.25
16 to 24 ins.	.35	.30
2-yr. seedlings, Per 100		
18 to 24 ins.	.40	.35
25 to 36 ins.	.60	.50
37 to 48 ins.	.75	.65

## STUART PECAN NUTS,

	Per lb.
10 to 50 lbs., express.	.35
100 lbs., express.	.40

## BUXUS SEMPERVIRENS

	Each	Each
18 to 24 ins., 6 yrs.	1.75	2.00

## GRAY STONE NURSERY Loachapoke, Ala.

MAGNOLIA GRANDIFLORA Well-established pots, shipped now or later. Cash and no packing charge. 2½-in. pots, 4 to 10-in. plants, \$15.00 per 100, \$130.00 per 1000. 300 at 1000 rate. 2½-in. pots, 3 to 4-in. plants, \$10.00 per 100, 4-in. pots, 8 to 12-in. plants, \$25.00 per 100. Bare-root plants for spring, 1954, 6 to 12 ins., 10c; 1 to 3 ft., 15c; 2 to 3 ft., 25c; 3 to 6 ft., 50c. Magnolias in gal. and 4-gal. cans at nursery. Following in 2½-in. pots: Blue Mist Spirea, 6 to 12 ins., 15c. Pfitzer Juniper, 15c; Pyraecantha Coccinea, 15c; Laurel Cherry, 10c.

## HARWELL NURSERY

Van Buren, Ark.

## MAGNOLIAS

Soulangiana, Nigra and Rustica Rubra. We are now booking orders for these finest quality liners. Many are slightly branched. A sure money-maker for you. Write for our list of items in gallon cans. Wholesale only.

	Per 100
8 to 12-in. liners.	\$30.00
12 to 18-in. liners.	35.00
18 to 24-in. liners.	40.00
2 to 3-ft. liners.	50.00

## BLACKWELL NURSERIES, INC.

Semmes, Ala.

## DEUTZIA, KOLKOWITZIA, HIBISCUS

Extra fine, heavy. Deutzia Pride of Rochester, 5 to 6 ft. Excellent for enclosure of large area. Specially priced at \$400.00 per 1000.  
Heavy Kolkowitzia, 2 to 3 ft. at \$45.00 per 100; 3 to 4 ft. at \$60.00 per 100.  
Hibiscus syriacus, white varieties, 3 to 4 ft. at \$25.00 per 100; 4 to 5 ft. at \$35.00 per 100.  
Send for complete list of Azaleas, Evergreens, Shrubs, Trees. Quality stock at reasonable prices.

## THE TANKARD NURSERIES

Exmore, Virginia

## ROSA MULTIFLORA—Thorny for budding

	Per 1000
4 to 6-in.	\$30.00
6 to 8-in.	40.00
Very heavy conservation grade	40.00
Sample, \$1.00	

Also, hybrid tea roses, No. 1 and potting size. Ask for list.

## DANEGER'S HI-WAY NURSERY, INC.

Milford, Del.

## SILVER MAPLE

(Acer dasycarpum)

Transplanted, well-branched

	Per 10	Per 100
trees, 5 to 6 ft.	\$ 9.00	\$ 85.00
6 to 8 ft.	13.50	115.00

## CUMBERLAND VALLEY NURSERIES, INC.

313 N. Chancery St. McMinville, Tenn.

## PRUNUS MARITIMA

(Beach Plum)

	100	1000
Strong 1-yr. seedlings,	\$10.00	\$ 75.00
6 to 12 ins.	17.50	150.00
2-yr., S. 12 to 18 ins.	30.00	250.00
3-yr., T. 18 to 24 ins.		

## C. HOOGENDOORN

Turner Rd. Newport, R. I.

## RED-LEAVED BARBERRY

	Per 1000
50,000 lining-out, 2-yr., S.	\$40.00
50,000 6 to 9 ins., 2-yr., S.	60.00

All orders to call for 500 or more.

## DANEGER'S HI-WAY NURSERY, INC.

Milford, Del.

## CITRUS TRIFOLIATA

Seedlings, 2 to 4 inches, \$3.00 per 100.

\$25.00 per 1000. Postpaid. Cash please.

## PERRYS NURSERY

Woodbine, Ga.

## CALIFORNIA PRIVET

1-yr., 10 to 18 ins., well-rooted, \$30.00 per 1000, bare-root.

## THE HOMESTEAD NURSERY

Fernberton, N. J.

## VEGETABLE ROOTS

## ASPARAGUS ROOTS

	Per 1000
Mary Washington, 2-yr. Plants.	
1000 to 5000 plants.	\$17.00
5000 to 10,000 plants.	16.00
10,000 plants and over.	15.00

Approximate weight per 1000 plants, packed for shipment 90 lbs. No packing charges for cash with order. Satisfaction guaranteed.

## FRITCHARD NURSERIES

Rt. 4 Ottawa, Kan.

## VINES

## GRAPE CUTTINGS—Concord and Fredonia, \$4.00 per 1000, F.O.B. base, tied with 100 to bunch. Guaranteed true to name. Cut from our young, thrifty vineyard, largest in Oklahoma.

IDEAL FRUIT FARM Stilwell, Okla.

## MISCELLANEOUS

## QUALITY LINERS

	Each
Abies Pinsapo Glauca S.T., 6 to 8 ins., 3-yr.	\$0.35
Albertina Spruce, 4 to 6-in. pots.	.25
Andromeda Pleria, 4 to 6 ins.	.18
Andromeda Pleria, 6 to 8 ins.	.20
Azalea Mollis Flame S. T.	.09
6 to 8 ins.	.25
8 to 10 ins.	.35
Azalea Gumpo, 6 to 8 ins.	.30
Azalea Rosa Plurim, 4 to 6 ins.	.25
Clematis Montana Rubens, pots.	.30
Canadian Hemlock, 6 to 10-in. pots.	.25
Daphne Mezereum, S.	.07
4 to 6 ins.	.12
6 to 8 ins.	.15
10 to 12 ins.	.25
12 to 14 ins.	.30
Heather, Carnea, T.	.15
Heather, Mediterranean Hybrid, T.	.12
Heather, Vivell, T.	.15
Juniperus Myer, 10 to 12 ins., T.T.	.40
Juniperus Tamariscifolia, 4 to 6 ins.	.15
6 to 8 ins., T.T.	.25
6 to 8 ins., T.T.	.25
Raphiolepis Ovata, T.	.15
Rhododendron Ponticum, 4 to 6 ins., T.	.20
Rhododendron Ponticum, 6 to 8 ins., T.	.25
Thuja Woodwardi Globosa, 4 to 6 ins., T.	.14
6 to 8 ins., T.	.17
8 to 10 ins., T.	.25
Viburnum Davidi, 2½-in. pots.	.50

Cash with order, please.

## FOUR STAR NURSERY

Rt. 2, Box 3529 Edmonds, Wash.



## MISCELLANEOUS—Continued

## LINING-OUT STOCK

	Per 100
Azalea Mollis, 3-yr., T.F.	
Lining-out stock	\$10.00
4 to 6 ins.	15.00
6 to 8 ins.	20.00
8 to 10 ins., bushy	25.00
10 to 12 ins., bushy	30.00
Euonymus Vegetus, 1-yr., T.	10.00
Euonymus Vegetus, 2-yr., T.	25.00
Hedera Helix, 2 1/2-in. pot.	20.00
Hedera Helix, 2-yr., R.C.	5.00
Ligustrum Ovalifolium (California Privet), 1-yr., field-grown, \$30.00 per 1000.	
Ligustrum Ovalifolium, 1-yr., field-grown, light, \$20.00 per 1000.	
Lilacs—Florent Stedman, Ruhm von Horstenstein, Michel Buchner, Hugo de Vries, Ludwig Spaeth, Pres. Grevy, Charles X. Hugo Koster, Mme. Lemoine, Charles Joly.	
1-yr., buds, lining-out stock	25.00
1 to 2 ft., br.	30.00
1 to 2 ft., br.	35.00
Buxus Sempervirens, 2 to 4 ins., R.C.	7.50
Buxus Sempervirens, 4 to 6 ins., R.C.	10.00
Kolkwitzia Amabilis, 1-yr., T.	10.00
Berberis Thunbergii, atropurpurea, 1-yr., T.	10.00
Taxus Cuspidata, R.C. from frame	10.00
2-yr., in open field-bed	25.00
2-yr., in open field-bed, extra-heavy	35.00
Taxus Hicksi, R.C. from frame	11.00
2-yr., in open field-bed	30.00
2-yr., in open field-bed	40.00
Taxus Brownii, R.C. from greenhouse	10.00
Taxus Intermedia, R.C. from greenhouse	8.00
Thuja Globosa, R.C. from greenhouse	10.00
Thuja Globosa, 1-yr. on field-bed	15.00
Ilex Glabra, 2-yr., R.C.	10.00

Please note: On the rooted cuttings in the greenhouse we reserve the right to cancel all orders in case of a crop failure.

Terms: Cash with order earns free packing. One-fourth with order, balance before shipping or C.O.D. plus packing at cost.

THE LITTLE MOUNTAIN VIEW NURSERY  
R.D. 1, Rt. 84 Mentor, O.

## PEONIES—IRIS—LILACS

Preliminary to plating our nursery, we must clear part of our land, hence the following low prices.

PEONIES—3 to 5-eye divisions. Per 10.  
Couronne d'Or, Solange, Departing Sun, \$3.50; LaLorraine, Baroness Schroeder, Milton Hill, \$5.00; Martha Bulloch, Therese, Mrs. Ed. Harding, \$6.00; Myrtle Gentry, \$7.00; Hansina Brand \$15.00; Mixed, \$3.00.

IRIS—Per 10. California Gold, \$2.25; Pseudacorus, Siberian Orientalis, \$1.00.

FRENCH LILACS—1000, 1-yr., field-grown grafts, \$26.00 per 100; 150, 2 to 3 ft., \$75.00 per 100. PERENNIALS—Hemerocallis Dumortieri Clumps, 25c each; 250 Pachysandra, \$12.00 per 100; 250 Pyrethrum Uliginosum, \$5.00 per 100; 100 Trollius, \$22.00 per 100.

We have many items not listed here. Send us your want list for quotations. Especially fine stock of peonies and iris. A reasonable deposit will hold for fall shipment.

All this stock has been carefully grown for our landscape trade. Cash with order, please. Shipment after April 1.

HARRY FRANKLIN BAKER, INC.  
1910 N. Eustis St. Paul 8, Minn.

## LINING-OUT STOCK

All heavy, pot-grown. Fall and spring delivery.	Per 100	Per 1000
Deutzia Gracilis, 2-in. pot.	\$15.00	\$125.00
Ribes Alpinum, 2-in. pot.	20.00	185.00
Juniperus Depressa Plumosa, 2 1/2-in. pot.	20.00	185.00
Juniperus Glaucus Hetzel, 2 1/2-in. pot.	20.00	185.00
Taxus Cuspidata, 2 1/2-in. pot.	25.00	225.00
Taxus Hicksi, 2 1/2-in. pot.	27.50	250.00
Taxus Hatfieldi, 2 1/2-in. pot.	27.50	250.00
Thuja Pyramidalis, 2 1/2-in. pot.	22.50	200.00
Thuja Elegansissima, 2 1/2-in. pot.	22.50	200.00
Thuja Woodwardi, 2 1/2-in. pot.	22.50	200.00
Thuja Wareana, 2 1/2-in. pot.	22.50	200.00
Ilex Convexa, 2-in. pot.	15.00	150.00
Ilex Rotundifolia, 2-in. pot.	15.00	150.00

Listed items subject to prior sale. No charge for packing when cash accompanies order.

THE HOLLANDIA GARDENS  
So. Vienna, O.

## WANTED

## WANT LIST—LINING-OUT STOCK

100 Ligustrum ibota  
50 Syringa villosa  
300 Cornus alba  
200 Cornus lutea  
50 Phellodendron amurense  
300 Fraxinus americana  
200 Celtis occidentalis  
10 Acer wieri  
25 Oxydendrum arboreum  
50 Platanus occidentalis  
250 Tsuga caroliniana  
50 Abies veitchii  
25 Abies nordmanniana  
50 Abies fraseri  
50 Tsuga diversifolia

SUDBURY NURSERIES, INC.  
South Sudbury, Mass.

## WANTED

Chaenomeles: Simon, Marmorata, Phyllis Moore, Nivalis and Japonica Alpina.  
Syringa: Mrs. W. E. Marshall.  
Berberis: Candidula, Lologensis, Xanthoxylon, Stenophylla Diversifolia, Irwini and Nana Compacta.

Any size plants but must be true to name beyond shadow of a doubt.

## PHYTOTEKTOR

U.S. Hwy. 64-41A Winchester, Tenn.

## WANT LIST

We need several thousand Flowering Crab Apple scions; also liners in English and Lodense Privet, and Colorado Blue Spruce Shiners, heavy, 12 to 18 ins. and 18 to 24 ins. transplants.

EGYPTIAN NURSERY & LANDSCAPE CO.  
Farina, Ill.

## WANTED

To correspond with anyone that has Moerheim or Koster Blue Spruce scion wood or cutting wood to sell.

## PEACE &amp; SON NURSERY

Box 304  
Siloam Springs, Ark.

Surplus Stock  
can be easily and quickly turned into cash

by listing it in the  
American Nurseryman Classified Ads.

## SUPPLIES AND SERVICES

## BLUEPRINTS

PROPAGATING HOUSE BLUEPRINTS  
Complete constructional blueprints of a modern sash-type propagating house are now available. 2 sheets including layout of heating, \$25.00 per set.

J. S. WELLS  
c/o D. Hill Nursery Co.  
Dundee, Ill.

## BURLAP

## NURSERY BURLAP

Burlap squares and sheets for balling purposes, made from selected used burlap and bags free of oil, smell or chemical stock. All vacuum machine-cleaned and holes sealed up. We also have a supply of open mesh onion bags in sheet form, measuring 33x36 ins. Samples and prices cheerfully submitted on request.

STERLING BAG & BURLAP CO.  
41 Carolina St. Buffalo 1, N. Y.

## FLATS

## FLATS

## MINNESOTA WHITE CEDAR FLATS

	Per 100
No. 1, 14x20x2 1/2	\$24.00
No. 2, 14x20x3	27.75
No. 3, 12x16x2 1/2	18.50
No. 4, 12x16x3	21.75
No. 5, 14x16x2 1/2	20.75
No. 6, 14x16x3	24.50
No. 7, 15x22x2 1/2	27.25
No. 8, 15x22x3	31.50
No. 9, 11 1/2x22x2 1/2	23.00
No. 10, 11 1/2x22x3	26.00
No. 11, 13 1/2x16x3 1/2	30.00
No. 12, 6x5x1 1/2	16.00
No. 13, 5x5x1 1/2	18.50

All other sizes quoted on request.  
5 per cent discount on orders of 1000 or more.

The above sizes are inside. Bottoms and sides are 1/2-in. and ends are 3/4-in. thick. All material surfaced on one side. All shipments by truck unless otherwise ordered.

Your name and address printed up to three lines in black, weather and waterproof ink, on one or both end pieces at the following rates: \$1.00 set up charge plus 1/2 cent per end piece for the first 1000 ends, 1/4 cent per end thereafter.

Shipped knocked-down in bundles of 25. F.O.B. Cook, Minn. Attach check. Order by number.

H. C. HILL & SONS, Cook, Minn.

## FLATS

Made from a good grade of southern Yellow Pine dipped in Rot Not wood preserver for longer life.

Standard specifications, inside measurements.  
16 x12x2 1/2 ..... \$20.25 per 100  
16 x14x3 ..... 27.00 per 100  
20 x14x2 1/2 ..... 26.61 per 100  
20 x14x3 ..... 31.07 per 100  
22 x15x2 1/2 ..... 30.49 per 100  
22 x15x3 ..... 35.35 per 100  
All other sizes quoted on request. Prices F.O.B. Birmingham, Ala. We are manufacturers, not jobbers. Our quality guaranteed. Prompt shipment on any quantity. Mixed shipments of Flats, Plant Boxes and Spray Boards. Write for our price list on these items. Attach check to order.

## HIGHTOWER BOX &amp; TANK CO.

P. O. Box 1449  
Birmingham 1, Ala.

## REDWOOD FLATS, K. D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$42.00 per 100.

1x1-in. Cypress stakes, pointed.  
50 pcs. to bundle, 4 ft., \$5.50 per bd.  
50 pcs. to bundle, 5 ft., \$4.50 per bd.  
50 pcs. to bundle, 6 ft., \$5.50 per bd.  
Ship same day. Cash with order, please.  
YOH & HOOKER, Youngstown 2, Ohio

Watch Your Results From  
American Nurseryman Classified Ads.

## LABELS

## DAHLIA OR TREE LABELS

Priced per 1000  
Plain Painted  
3 1/2 x 1/2 ins., notched (not wired) ..... \$2.50 \$3.00  
3 1/2 x 1/2 ins., wired (copper) ..... 3.50 4.10

## POT LABELS

4x4 ins. (cartons 1000 each) ..... \$3.30 \$3.95  
5x4 ins. (cartons 1000 each) ..... 3.60 4.30  
6x4 ins. (cartons 1000 each) ..... 3.90 4.85

## Prices per carton

8x4 ins. (cartons 500 each) ..... \$3.00 \$3.60  
10x4 ins. (cartons 500 each) ..... 3.50 4.35

## GARDEN STAKES

## Prices per carton

8x4 ins. (cartons 1000 each) ..... \$2.50 \$3.00  
10x4 ins. (cartons 1000 each) ..... 2.75 3.25  
12x1 1/2 ins. (cartons 1000 each) ..... 1.75 2.00

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

"We ship the same day."

YOH & HOOKER

Youngstown 2, O.

## ORCHID SUPPLIES

OSMUNDA: Fresh-cut "live" fiber at all times.

Professional bag, \$2.50; Bushel, \$5.00  
Standard Bale, \$12.00

PLASTIC LABELS—Copper or nickel-bearing wire.  
Pot, 1/2 by 3 1/2 ins. .... \$1.50 \$4.95 \$ 9.50  
Pot, 3/4 by 4 ins. .... 1.95 7.95 15.00  
Orchid Spec., 1/2 by 4 1/2 ins., red, blue, green, yellow and white ..... 2.10 8.95 16.00  
Wired, 1/2 by 2 ins., white ..... 1.95 7.95 15.00  
% by 3 1/2 ins., white ..... 2.15 9.00 17.00  
% by 3 1/2 ins., blue, green, red and yellow ..... 2.25 9.45 18.00  
White Strap Label, 1/2 by 6 1/2 ins. .... 2.10 8.95 16.00

—Special—  
NEW PRICE—ORIGINAL BUBBLE VASE  
LAPEL PINS, \$1.25 doz. 2, 3, 5-in. Orchid tubes with rubber caps, 60c per doz., \$4.10 per 100.

WRIGHTWOOD FLORAL CO., INC.  
2407 N. Main St. Houston 9, Tex.  
Prices F.O.B. Houston. Subject to change without notice.

More customers for you!  
Over 7,600 subscribers, all active buyers, see your ad in the American Nurseryman.

## HAY

MARSH HAY FOR MULCHING  
Clean, no weeds. Truckloads or carloads.  
KOPFF HAY CO.  
Beaver Dam, Wis.

Quick — Convenient — Cheap!  
Selling through the Classified Ads of the American Nurseryman.

## RAFFIA

## RAFFIA

Natural and Colored First Quality  
Madagascar Raffia.  
Your inquiries solicited.  
BERKERY, INC.  
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NATURAL MADAGASCAN RAFFIA  
First-quality Majunga and Eastcoast types.  
Prices and samples on request.  
BERKERY, INC.  
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**SOIL-TESTING SERVICE****SOIL TESTING**

Soil-testing and consultation services to help you grow better crops. Rapid, accurate tests for pH, organic matter, nitrogen, phosphorus, potassium, calcium and four minor elements cost only \$5.00 per sample, or write for costs on a soil-testing consultation program.

DR. WOLF'S  
AGRICULTURAL LABORATORIES  
Rt. 4, Fairton Rd. Bridgeton, N. J.

**SPHAGNUM MOSS****NO. 1 SPHAGNUM MOSS**

Clean, long-fibered, standard bales; freight, express, or delivered by our trucks. Please price us before you buy. Satisfaction guaranteed.

WARRENS MOSS CO., Warrens, Wis.

**STAKES****CYPRESS PLANT STAKES**

50 Pieces to Bundle.

1x1-in.—3 ft., pointed.....	\$2.50 per bundle
1x1-in.—4 ft., pointed.....	3.50 per bundle
1x1-in.—5 ft., pointed.....	4.50 per bundle
1x1-in.—6 ft., pointed.....	5.50 per bundle
1x1-in.—7 ft., pointed.....	7.00 per bundle

These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!

YOHO & HOOKER

Youngstown, O.

**HEAVY BAMBOO STAKES**

Per 100	1/2 to 3/4 in.	3/4 to 1 in.	1 to 1 1/2 in.
4 ft. ....	\$2.88	\$3.44	\$4.24
5 ft. ....	3.60	4.30	5.30
6 ft. ....	4.32	5.16	6.36
7 ft. ....	5.04	6.02	7.42
8 ft. ....	5.76	6.88	8.48

2000 up, less 5%; 5000 up, less 10%  
A. C. PATTERSON, Centertown, Ky.

**STAKES, GALVANIZED HARD STEEL.**

Galvanized Wire

Prices and samples sent upon request.

SCHUPP SUPPLY CO., Wilmette, Ill.

**MISCELLANEOUS****MARSH HAY AND POSTS**

Marsh Hay and 2-in., 3-in., 4-in., 5-in., and 6-in., Norway and White Pine Posts for sale.

ARCHIE PANETTI CO.  
Rt. 6, Box 42 Waukesha, Wis.

**WEEDER GOSLINGS**

Save hand labor costs in weeding nursery plantings. Free illustrated booklet. Advance order discount. Guaranteed live delivery.

HEART OF MISSOURI POULTRY FARM  
Rt. 4N Columbia, Mo.

**TRADE BOOKS****TRADE BOOKS.**

COMMERCIAL FLOWER FORCING,  
by Alex Laurie and D. C. Kiplinger, \$5.00.

65 PRACTICAL GARDEN PLANS,  
by John Elliott, \$1.00.

STANDARD CYCLOPEDIA OF HORTI-  
CULTURE,  
by L. H. Bailey, \$45.00.

GREENHOUSE GARDENING FOR  
EVERYONE,  
by Ernest Chabot, \$4.00.

MAINTENANCE OF SHADE AND  
ORNAMENTAL TREES AND SHRUBS,  
by P. P. Pirone, \$7.00.

IMPROVED PRACTICES IN  
PROPAGATION BY SEED,  
by L. C. Chadwick, 25c.

SHRUBS AND VINES  
FOR AMERICAN GARDENS,  
by Dr. Donald Wyman, \$7.50.

GREENHOUSES: THEIR CONSTRUCTION  
AND EQUIPMENT,  
by W. J. Wright, \$3.00.

THE BOOK OF TREES,  
by A. C. Hottes, \$4.00.

Descriptive book circulars available on  
request.

THE PRUNING BOOK,  
by Gustav L. Wittrock, \$3.00.

MANUAL OF CULTIVATED TREES AND  
SHRUBS,  
by Alfred Rehder, \$12.50.

These books may be obtained, postpaid, at  
the publishers' prices indicated, from

AMERICAN NURSERYMAN  
343 South Dearborn Chicago 4, Ill.

**SPRAY MIXTURE EFFECTIVE**

A "double-barreled" dose of insecticide may be one way to overcome insect resistance, recent research at the Connecticut agricultural experiment station has shown. According to Neely Turner, head of the station's entomology department, a mixture of two insecticides, each of which attacks the bug population in a different way, has given excellent results in overcoming the resistance problem.

The larger the proportion of an insect population receiving insecticide treatments, the likelier the population is to become resistant. By using two materials which kill insects in different ways; for example, a nerve poison and a stomach poison—resistance has been largely overcome. The insecticides can be applied alternately or as a mixture. Probably the second method is best for the commercial grower, since he does not have to worry about remembering which insecticide was applied at the last spray application.

Experiment station tests have shown that a mixture of Methoxychlor and Dilan gives good control of the Mexican bean beetle. Several combinations have worked well against the potato flea beetle: Chlordane-Dilan, Chlordane-Aldrin, Chlordane-Dieldrin and Chlordane-Heptachlor.

**TWO NEW PEACH VARIETIES**

Two new varieties of peaches, both of which have proved their worth in extensive trials, have been named by the agricultural experiment station of Rutgers University, New Brunswick, N. J.

Both were bred by the late Prof. M. A. Blake, former head of the department of horticulture, and one was named after him. The other was christened Sunrise.

Blake is a fully freestone, yellow-fleshed peach which ripens about a week before Elberta. It is three fourths covered with an attractive red over bright yellow and attains its color well before it softens, which provides a longer harvesting period than many other varieties have. Its exceptional color gives it unusual consumer appeal. It is resistant to bacterial spot, a serious problem in southern New Jersey.

Sunrise ripens about two weeks before Jerseyland or just before Early East. It is semclingstone with good quality and moderately firm flesh. The fruit is of good size although it may tend to be small when not thinned properly.

# AN EXTRA SALESMAN

How would you like to put on an extra salesman during conventions and busy periods without the task of searching for a man qualified for the job or the expense of maintaining him on the payroll at other times?

You can do it by using the advertising columns of the American Nurseryman to carry your offers of stock, quote your prices and bring in the orders.

Try it—now!

Advertising rates on request.

**AMERICAN NURSERYMAN**

343 S. Dearborn St.

Chicago 4, Ill.

## WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

**Display: \$4.00** per inch, each insertion.

**Lines: 35¢** line; minimum order **\$3.50**.

### HELP WANTED

#### DESIGNER-SALESMEN

We have two full-time, permanent positions open for men who can sell and draw own plans. Sales ability is of primary importance. If you can sell, you can earn from \$5000 up the first year, on a salary-plus-commission basis. You would be affiliated with one of the oldest, largest and most reliable nurseries in the Midwest. It is easier to sell for a company with such a background. Positions open on or about January 1, 1954. For full particulars write or call R. A. Glaser, Branch Mgr., Igenfritz Nurseries, Inc., Toledo, Ohio. Kl. 5761.

### FOR SALE

#### A Real Business Opportunity

Real opportunity for a man and wife experienced in landscape or garden center. Four acres within the city limits of growing mid-west city on U. S. highway, with new garden shop and 7-room dwelling. \$30,000 gross sales past year. Very little money needed to handle. Owner will help finance. Write Box 28, care of American Nurseryman.

### FOR SALE

#### RETAIL NURSERY

Complete nursery stock and garden supplies. Office building, two lath houses, one small glasshouse, two-bedroom modern home (furnished). Doing good landscape business; many new subdivisions going in. Excellent opportunity; only nursery in town of 7000 population. Priced at \$19,350, \$10,000 will handle. Good reasons for selling.

A. W. STEENSEN  
P. O. Box 1824  
Casa Grande, Ariz.

### HELP WANTED

Landscape nurseryman operating in eastern Iowa and western Illinois offers profitable permanent position to experienced nurseryman or graduate of landscape architecture, ornamental horticulture or horticulture. Must be able to work. Man with sales ability preferred. Good future for right man. Beginning salary \$300 per month.

PLATT'S LANDSCAPE NURSERY  
901 E. Kimberly Rd., R. R. 3  
Davenport, Ia.

### FOR SALE

#### Tree Surgery and Landscape Business

Offered for sale with or without equipment. A gold mine for the right parties.

TREE SERVICE  
Box 705  
South Norwalk 17, Conn.

### FOR SALE

Landscape nursery, in Baltimore-Washington area. Complete equipment, new trucks, tractors, etc. 14 acres deep topsoil. Specimen material, land and all equipment for \$35,000. Address Box 998, care of American Nurseryman.

### FOR SALE

Well-established nursery, landscaping and tree service business. Over 15,000 satisfied customers. New, 6-room, modern home, 10,000 evergreens and irrigation system. Peorians for 51 years. BRANDT'S GARDENS AND NURSERY  
1215 North St., Peoria, Ill.

### HELP WANTED

#### EXPERIENCED NURSERYMEN

One of the largest nurseries in southern California offers profitable, permanent positions to experienced nurserymen; also, to horticultural and agricultural students and graduates. Must be able to work! Security, pleasant working conditions and unlimited future for the right men. Beginning salary \$300.00 per month.

MONROVIA NURSERY CO.  
P.O. BOX 196  
Monrovia, Calif.

### HELP WANTED

#### EXPERIENCED PROPAGATOR

Man capable of taking complete charge of greenhouses totaling 9000 sq. ft. with oil-fired automatic heat. Also to take charge of seedbeds and frames. Must understand grafting, rooting and growing of seedlings to supply nursery of 150 acres devoted to the growing of ornamental landscape material for the wholesale trade. Must furnish references. Address Box 984, care of American Nurseryman.

### FOR SALE

Established landscape nursery in southern Texas. Well-equipped. Serves large area with designed plantings and complete service. Location is in rapidly growing area with great home-building activity and a bright future. No water storage. Owner retiring. Price \$10,000 cash. Reply to Box 31, care of American Nurseryman.

### WANTED TO BUY

Nursery or garden center in large metropolitan area. State particulars.

Address Box 23,  
care of American Nurseryman.

### WANTED TO BUY

Used tree mover that will take a 6 or 7-foot ball. Address replies to Box 30, care of American Nurseryman.

### HELP WANTED

#### Salesman or Landscape Architect

Willing, aggressive and cooperative young man with knowledge of landscape design. Capable of advising our customers concerning landscape problems and drawing sketches or landscape plans when necessary. Please give full qualifications in first letter, including recent photograph and expected salary.

COLORADO GARDENS AND  
NURSERY  
2406 Wood Ave.  
Colorado Springs, Colo.

### FOR SALE

Thriving nursery business, 38 miles north of New York city in Orange county. 12 acres of salable-size stock, all varieties. Stone residence with nine rooms and bath, heated; also office and small attached greenhouse. Five-car garage with five-room apartment above. \$39,000, with terms. For further details, write:  
SANFORD DURLAND  
Chester, N. Y.

### FOR SALE

#### TREE MOVERS

We have several used tree movers in 6 and 7-ft. ball capacity. These movers are used but in perfect condition.  
WILLIAMS & HARRY NURSERIES  
CO.  
Box 8822, Kansas City, Mo.  
Phone: Gilmore 9000

### SITUATION WANTED

Landscape Designer. Available March 15. Experienced in sales, business management, promotion and all phases of landscaping. Your opportunity to make money from your landscape department. For resume, write JAC SMIT, Box 91, Farmingdale, N. Y.

### WANTED

#### FINANCIAL BACKING

Rhododendron propagator and grower looking for financial backing. Can produce 10 to 15-inch, year-old liners from cuttings—all varieties. Address replies to Box 29, care of American Nurseryman.

SITUATION WANTED—Experienced, top-flight landscape and nursery stock salesman desires permanent position with opportunity for advancement in southwest or California. Good background and excellent references. 32 years old and married. Aggressive, willing, cooperative; can handle responsible position. Vast amount of experience in handling men and experienced in mechanical and free-hand drawing. Reply to Box 32, care of American Nurseryman.

SITUATION WANTED — American Landscape School graduate, 48 years old, family man, nondrinker. 10 years' experience at selling, planting, growing and landscape construction with crew. Have drawn, sold and executed plans for homes and parks. Have an inherent interest in horticulture. Prefer not to leave western U. S. Address Box 27, care of American Nurseryman.

SITUATION WANTED—Landscape architect, horticulturist, age 36, with 14 years diversified experience including civil engineering, landscape construction. Also registered land surveyor. Interested in good paying, responsible position. Available on 30 days' notice. Reply to Box 26, care of American Nurseryman.



## TROPICAL NURSERIES

[Continued from page 11]

ranged by variety under it, with prices marked on some to facilitate limited self-service. One third of the nursery is under camouflage cloth; another third is shaded by natural mesquite trees and the remainder is in the open. Many thousands of plants fill the large salesyard of the nursery, which covers approximately 5,000 square feet.

Retaining walls of Aztec brick hold cactus displays, and decorative



The use of the softleaf yucca pictured above provides height in a somewhat tapering design at one side of an industrial building, the General American Tank Storage Terminals branch office at Corpus Christi. Varied and colorful plants complete the landscaping, which the firm proudly floodlights at night.

walls of the same brick are used along paths in the nursery. The total effect is rustic and informal, and in spite of the fact that most of the plants are in containers, they give an impression of lush tropical growth on all sides.

## Buildings Harmonize

The nursery's buildings harmonize with the informality of the grounds. The office, the first building constructed by the firm, was built by the owners' own hands, as it was felt that a carpenter would lose the rustic effect desired. Consisting of frame and Aztec brick, topped with a palm-thatched roof and finished off inside with bamboo and Mexican

# Naturally - GOOD EARTH with PREMIER!

—so *naturally* nurserymen  
prefer

## PREMIER PEAT MOSS

*The Natural Organic Soil Conditioner*

Good results—in good earth! That's the proof that Premier Peat Moss is the soil conditioner to use!

Premier is *naturally* better—because it supplies the *natural* organic matter that all soils need . . . absorbs and stores nutrients and feeds them to the roots as needed . . . gives all soils loamlike texture, perfect aggregation, room for roots to spread out—gives superior results in propagating, transplanting, potting and bench soils, mulching soil improvement.

Naturally—it *pays* to use Premier! And it *pays* to *sell* it—in Premier's attractive, colorful bags and cartons as well as bales! More Premier Peat Moss is sold than any other brand. Send for prices on Canadian and European Premier Peat Moss.

Big  
Value  
Bales

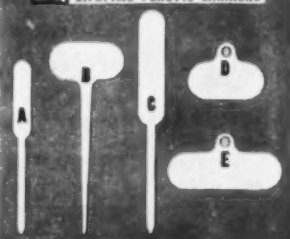
Bags  
and  
Cartons



PREMIER PEAT MOSS CORP.

535 Fifth Avenue, New York 17, N. Y.

### GRO-QUICK LIFETIME PLASTIC MARKERS



### GRO-QUICK

#### LIFETIME PLANT AND SHRUB MARKERS

Preferred by professional and amateur growers of indoor and outdoor plants and shrubs. Made of durable, heavy gauge, molded white plastic. Guaranteed to withstand all kinds of weather. Write on them with ordinary pencil. Will not come off. Yet can be cleaned and re-used (a little scouring powder on a damp cloth).

Write today for free samples

	Per 75	Per 100	Per 500
A. 4½-in. VERTICAL POT or BORDER STAKE.....	\$1.00	\$1.25	\$ 5.00
B. 2 -in. x 5-in. HORIZONTAL POT or BORDER STAKE.....	2.00	2.50	10.00
C. 6 -in. VERTICAL POT or BORDER STAKE.....	1.60	2.00	9.00
D. 2 -in. HORIZONTAL TIE on TAG.....	1.30	1.65	7.00
E. 3 -in. HORIZONTAL TIE on TAG.....	1.60	2.00	9.00

GRO-QUICK ALSO MANUFACTURES WEED WAND—SEED SOBER—LIFETIME PLANT TIES.

GRO-QUICK SALES

Dept. 7A, 10342 Lanark, Detroit 24, Mich.



**BACTI-VATED**  
**MICHIGAN PEAT**  
 NATURE'S ORGANIC SOIL BUILDER  
**DOES A BETTER JOB!**



100 lb. BURLAP bags with plastic liners.  
 50 lb. WHITE bags, plastic lined.  
 25 lb. WHITE bags plastic lined.  
 Pock—clear plastic bags  
 1/2 pock clear plastic bags

**BETTER PEAT**  
**BETTER BAGS • BETTER PROFITS**  
**BETTER ADVERTISING . . . SELL IT — USE IT**  
 Also a full line of Potting Soils—Free Samples

Nationally advertised in Better Homes & Gardens, House & Garden, House Beautiful, Flower Grower, Horticulture, Sunset, Maryland Gardener, Organic Gardening.

**MICHIGAN PEAT, Inc., 267 Fifth Avenue, New York 16**  
 Peat Bogs, Capac, Michigan

## HAND TRUCKS

Especially built for handling  
 B&B nursery material. Are  
 built in three sizes, with  
 capacity up to 1500 lbs.

Illustrated is our small  
 model truck. One man  
 can easily handle 600-lb.  
 ball.



*Write for folder giving details and prices.*

### THE GARDEN SHOP, Inc.

6315 West 75th St.

Overland Park, Kansas

Phone HEdrick 3288 (Kansas City, Mo., exchange)

#### BURLAP NURSERY SQUARES

Cotton Net Squares  
 Burlap and Burlap Strips  
 Write for prices.

#### GENERAL PACKAGE CORP

212 Vanderpool St. NEWARK 5, N. J.

**IF YOU'RE NOT USING  
 SUPERTHRIVE 50-IN-1\*  
 YOU'RE LOSING TOO MANY PLANTS!**

Clip this ad for sample.

#### VITAMIN INSTITUTE

5409-15 Satsuma Ave., North Hollywood, Calif.

\*Trade-mark

patates (straw-colored material with a woven appearance), the unusual building has received much appreciative comment. It is painted light green and terra cotta and seems almost to have grown from its tropical surroundings.

Other buildings on the grounds include a sales and storage building, a tool shed and a potting house—all of simple and fitting design.

In discussing Tropical Nurseries, one must eventually consider the Mexican influence which has loomed so large in the nursery's progress. Desirous of emulating and adapting the finer aspects of Mexican artistry and plant lore, Mr. Seawell and Mr. Austin made a 3-months' trip to Mexico many years ago specifically to study construction and landscaping. They went to remote, rural areas in the interior of Mexico—wild, undeveloped sections where Americans seldom go. They discovered the things which a tourist would find enchanting—if he saw them—and they learned how various kinds of Mexican brick and tile were made and utilized. They paid particular attention to effective Mexican uses of plants. Repeated trips to Mexico over the years have added to their understanding, and the nursery's superintendent and landscape architect, Don Barton, likewise possesses a wide knowledge of and deep appreciation for Mexican architecture and horticulture.

#### Sell Mexican Plant

One Mexican plant widely used and sold by Tropical Nurseries stands out for attractiveness and landscaping effectiveness. In appearance it is similar to one of Texas' native plants, the Spanish dagger or Spanish bayonet (*Yucca aloifolia*). It is said that the leaf of a Spanish dagger can be put right through a man, for the spearlike leaf has a hard, sharp point. Thus, used around a home where there are children, the Spanish dagger can be a real danger. Even if one is only slightly stuck with its sharp point, a painful burning sensation results.

That is why the Mexican importation is highly regarded—it has the attractive appearance of the Spanish dagger but possesses a soft, harmless leaf. It is, in fact, popularly called the softleaf yucca—botanically, *Yucca guatemalensis*. The handsome plant is well worth the involved buying trips to the Rio Grande which are necessary several times a year for the nursery to maintain a stock of the larger sizes. These buying trips cover the area along the Rio Grande

# Your Best Investment for '54



Here is an investment that will pay off in many ways. First, a Royer Compost Mixer will produce as much compost in one hour as you can prepare in a full day with manual methods. Think of the terrific saving in labor dollars! And where help is hard to get, this machine releases man power for more profitable, productive work.

Additionally, you will be paid off in compost quality. Made with a Royer, your finished product is clean, evenly granulated, completely shredded and blended. It will absorb and retain moisture and more readily yield nutrition to hungry plants.

Get these maximum returns from your investment. Send for Bulletin 46 giving details.



**PIONEER  
BUILDERS  
OF  
COMPOST  
SHREDDERS**

## ROYER FOUNDRY & MACHINE CO.

182 PRINGLE ST., KINGSTON, PA.

from Laredo to Brownsville on the American side of the river—for although the softleaf yucca is native to Mexico, individual plants no longer have to be imported but can be obtained from Mexicans living on this side of the Rio Grande.

It should be noted here that the Mexican people are great plant and flower lovers, natural horticulturists, in fact, forever giving each other cuttings or trading cuttings. Since most Mexicans in rural areas are exceedingly poor, they value each plant highly and care for it tenderly. Watering is itself frequently an act of love, for water is scarce in many areas and all water must be used twice—first for a bath, perhaps, and then for watering the plant, possibly with each leaf washed by hand.

When Mexican people prune, each piece of wood that is removed is saved for propagation or given to friends, almost never thrown away. Thus, in spite of poverty, Mexican families nearly always have something decorative growing outside their homes. Among the favored ornamentals is the softleaf yucca, and many of the Mexicans who have come to this country and settled along the Rio Grande have smuggled across a seed or cutting of this much-loved plant.

These Mexican-Americans live similarly to the way the Mexicans on the opposite side of the Rio Grande, in Mexico, do. They are extremely poor and live in mud—not adobe—huts. They do not know the value of money but obtain what they want mostly by barter. It is these people from whom Tropical Nurseries obtain their large-size yuccas. Some of the immigrants came to this country as long as 20, 30 or more years ago, planted the yuccas when they came and have carefully tended and watered the plants over the years.

Messrs. Austin, Seawell and Barton understand the Mexicans' love for plants and profit by this understanding. They do not take money to buy the plants—for these people usually do not want money or appreciate its value. Instead, the nurserymen take along a plant to trade—perhaps a double yellow hibiscus. The Mexicans are acquainted with hibiscus; but they have never seen a double yellow hibiscus (a fairly new American origination). They become ecstatic over it. They want it. For this they will even trade a goat. But the nurseryman-buyer wishes to trade only for the yucca. A bargain is eventually made: Tropical Nurseries have a yucca; a Mex-

## Sell **IDEAL GARDEN GADGETS**

Enjoy Added Profits.

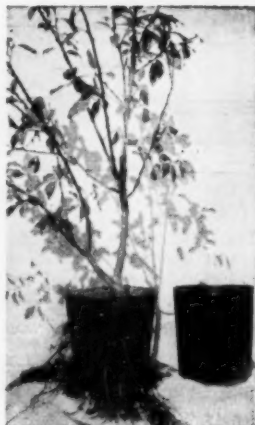


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Supports

Send for folders today!

**LANSING SPECIALTIES MFG. CO.**  
Lansing 12, Mich.

## HERE IS WHY NURSERYMEN PREFER MENNEPOTS



### Superior Strength

Sturdily constructed, the MENNEPOT withstands hard handling without fear of breaking apart.

### Stapled Bottom

Comes completely assembled... Potting can start immediately upon arrival—regardless of weather.

### Light Weight

The MENNEPOT is easy to handle, economical to use. The extremely light weight makes shipping costs negligible.

### Drainage

The unique side-drainage feature in the MENNEPOT makes waterlogging impossible while standing in the salesyard.

#### Size 0

Top... 4 ins.  
Bottom... 3 1/4 ins.  
High... 4 ins.  
Weight per 100  
Regular 10 lbs., Heavy 25  
Regular Weight Price  
100...\$2.75 1000...\$25.00  
Heavy Weight Price  
100...\$3.75 1000...\$35.00

#### Size 1

Top... 6 ins.  
Bottom... 5 ins.  
High... 6 ins.  
Weight per 100  
Regular 15 lbs., Heavy 35  
Regular Weight Price  
100...\$4.00 1000...\$37.50  
Heavy Weight Price  
100...\$5.25 1000...\$50.00

#### Size 2

Top... 7 ins.  
Bottom... 5 1/2 ins.  
High... 8 ins.  
Weight per 100  
Regular 24 lbs., Heavy 55  
Regular Weight Price  
100...\$4.50 1000...\$42.50  
Heavy Weight Price  
100...\$5.75 1000...\$55.00

#### Size 3

Top... 8 1/4 ins.  
Bottom... 6 1/4 ins.  
High... 9 ins.  
Weight per 100  
Regular 30 lbs., Heavy 70  
Regular Weight Price  
100...\$5.00 1000...\$47.50  
Heavy Weight Price  
100...\$6.25 1000...\$60.00

#### Size 4

Top... 8 1/4 ins.  
Bottom... 7 1/2 ins.  
High... 5 ins.  
Weight per 100  
Regular 30 lbs., Heavy 70  
Regular Weight Price  
100...\$5.00 1000...\$47.50  
Heavy Weight Price  
100...\$6.25 1000...\$60.00

#### Size 5

Top... 12 ins.  
Bottom... 10 ins.  
High... 12 ins.  
Weight per 100  
Regular 100 lbs., Heavy 250  
Regular Weight Price  
100...\$12.50 1000...\$125.00  
Heavy Weight Price  
100...\$15.00 1000...\$150.00  
\*Special for extra-heavy trees and large shrubs.

500 of a size taken 1000 rate in sizes 0-1-2-3-4. Regular-weight pots packed 100 and 200 per carton in sizes 1-2-3-4. Size 0, 250 only. Heavy pots are packed 100 per carton only in sizes 1-2-3-4. Size 0, 250 only. Size 5, 20 only. NO BROKEN CARTONS.

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ican family has a double yellow hibiscus. The yucca is dug and put in the truck. But that is not all!—a cutting of the yucca is then taken and planted in the hole where the large plant had grown.

Fair bargains are made, for the men of the nursery respect and sympathize with the Mexican people. Mr. Seawell frankly and simply states, "We do not rob them."

Occasionally, from educated Mexican-Americans, the firm purchases yuccas for cash. An extremely large plant was purchased not long ago from a schoolteacher who had emigrated from Mexico many years ago and was living at Brownsville. She was 60 or 70 years old and had planted the yucca when she was a child.

A large yucca sells for \$100 to \$150, retail. Small ones are sold for as little as \$1. Softleaf yuccas in south Texas have eventually attained heights of 18 or 20 feet. Since an old yucca possesses multiple heads, perhaps as many as 15 or 20, the weight of a large yucca may be 2,000 pounds or more.

#### Aztec Brick Used for Patios

A second noteworthy importation, in this case of a construction material, is Aztec brick. On their trips to Mexico, Messrs. Seawell, Austin and Barton many times observed the crude manufacture of this brick—watched the brickmakers accumulate a pile of clay, pour water in the center of the pile, work the clay with their feet until it was of a doughy consistency, hack a limb of

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Length	Wt.	Per 100	Per 500	Per 1000
3 ft.	41 lbs.	\$ 7.70	\$33.60	\$ 61.10
4 ft.	54 lbs.	\$ 10.30	\$41.50	\$ 83.90
5 ft.	68 lbs.	\$ 12.90	\$56.50	\$104.70
6 ft.	81 lbs.	\$ 14.90	\$67.50	\$125.90
7 ft.	95 lbs.	\$ 17.20	\$79.00	\$148.70
8 ft.	108 lbs.	\$ 19.50	\$89.50	\$171.80

#### NO. 6 GAUGE—(Approx. 1/5-inch)

Length	Wt.	Per 100	Per 500	Per 1000
3 ft.	30 lbs.	\$ 5.10	\$24.20	\$ 45.40
4 ft.	40 lbs.	\$ 6.70	\$31.80	\$ 59.60
5 ft.	50 lbs.	\$ 8.50	\$40.90	\$ 79.70
6 ft.	60 lbs.	\$ 10.30	\$49.40	\$ 96.00
7 ft.	70 lbs.	\$ 12.10	\$57.40	\$112.40
8 ft.	80 lbs.	\$ 13.90	\$65.50	\$128.40

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a nearby tree with a machete to make a primitive 2-brick mold, bake the brick in the sun for a week and later fire it in a makeshift kiln fired with any wood available (usually mesquite). The resultant brick varied in shape, as the wooden molds warped; and the color of the brick ranged from white thorough buff to a deep brick red, since any water at hand was used to mix the clay, and water containing salt caused bleaching. The very irregularity of the bricks delighted the nurserymen.

During the course of nursery operations an opportunity eventually arose for the firm to purchase a large quantity of the Aztec brick. Quite by chance, Mr. Seawell discovered that a lumberyard had bought an entire carload of the brick and had held it for many months without selling a single brick. The nursery was offered the carload and bought it for a price which figured at slightly over 1 cent per brick.

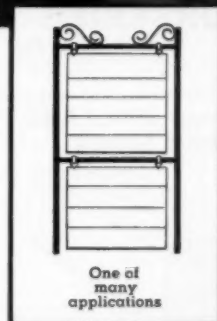
#### Profit on Mexican Brick

Since they owned a carload of Mexican brick which, up until that time, no one at Corpus Christi seemed to appreciate, the nurserymen began at once to demonstrate how the brick could be used. They built attractive walls of the brick in front of the nursery near the street and began to pave the patios, called for in landscaping jobs, with the material. Once its usefulness and attractiveness in landscaping were demonstrated, the brick sold easily and has become one of the most popular materials used in the area for landscaping. Ironically, a few years after buying the carload of brick, Tropical Nurseries did the landscaping around the lumberyard's new office building and sold some of the brick back—at 15 cents per brick!

The nursery was also instrumental in the building of the first home of Aztec brick at Corpus Christi, as one of the firm's owners drove a local contractor, who could not visualize how the crude brick could possibly be used to build an attractive building, to see brick homes in Mexico. The contractor was so impressed by the beautiful homes that he returned to Corpus Christi and built the city's first Aztec brick house. Needless to say, it was appropriately landscaped by Tropical Nurseries.

The size of brick commonly carried by the nursery is 4x6x12 inches, although the brick can be custom made to any size specification. Bricks of the size just noted weigh 12 pounds apiece. As they absorb water readily,

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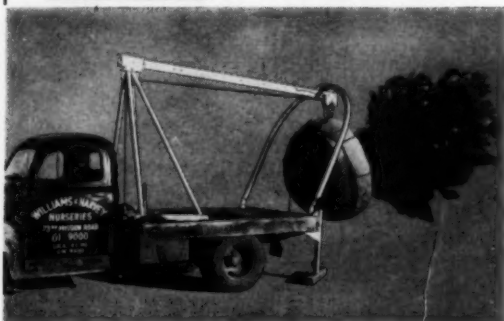
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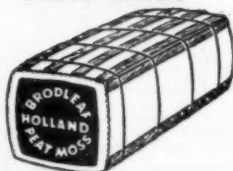


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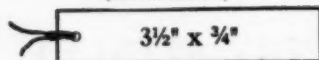
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a wet brick may weigh double this amount. (When used in homes, the bricks are sealed.) When American bricklayers lay the brick, a perfect regular smooth facing results and the rustic charm is partly lost. When Mexicans lay the brick, the result is uneven and irregular and possessed of an interesting texture. Consequently, the nursery usually employs Mexican labor for laying the brick.

Tile, bamboo, potatoes and other Mexican construction materials, and numerous Mexican plants, are utilized effectively by the firm.

### Cooperation with Builders

An instance of the firm's friendliness and cooperation with a city builder was noted above. Friendly relations with contractors have opened doors to landscaping opportunities and brought numerous mutual benefits. A Peerman-built home provides another example. This home failed to sell to an exceedingly interested prospect because, although he admired the inside, he felt the outside looked "barny." Actually, the strong, vital lines of the house needed softening with suitable landscaping. Recognizing this need, the builder, Frank Peerman, telephoned Tropical Nurseries and made arrangements for landscape men to begin work immediately. A suitable plan was worked out, and two days later the planting was completed—as it happened, around noontime. The prospect who had previously described the house as "barny" happened to drive past a few hours later, found the house to his liking with the landscaping and purchased it that same day.

In line with their recognition of the need for cooperation between landscaping and building contractors, Tropical Nurseries are members of the South Texas chapter of the Associated General Contractors of America, Inc. (as well as of the state nurserymen's organization). The firm learns of many landscaping opportunities from the newsletter of this association, in which news of bids and contracts is reported in detail. It is from this newsletter that the firm first learned of numerous industrial landscaping jobs on which they bid.

### Proud of Landscape Jobs

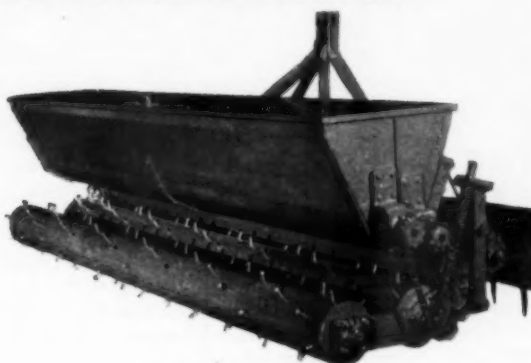
Tropical Nurseries take pride in many large industrial landscaping jobs at and near Corpus Christi. Among these are the Corpus Christi branch of the Celanese Corp., Holt Caterpillar Co., Nueces County Tubercular hospital and the Southwestern Oil Refining Co. The landscaping of federal housing projects and

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**MODEL DS-4**

Double-section box above offers the ultimate in grass seed distribution. Seed flow in front section is controlled by 14 precision-metered gears and in rear section by agitator. Seed can be separated or mixed as desired. Capacity of both sections—4 bushels. Up to 15 pounds of Italian rye grass per 1000 square feet can be distributed.

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motels has also provided considerable challenge and eventual satisfaction to members of the firm.

Landscaping jobs completed the past year range from the \$5 to the \$12,000 class, with those ranging from \$100 to \$200 probably the most profitable. No maintenance is done by the firm, but the larger jobs often require a vast amount of "checking up" before satisfaction is assured. An inexpensive planting around a small home, once completed, can usually be forgotten, as the homeowners will care for it.

For a nurseryman, Corpus Christi has many advantages—a prosperous residential area, a growing popularity as an industrial location and a climate which permits the use of tropical plants as well as many which are used much farther north. The city likewise has a few disadvantages from the nurseryman's standpoint.

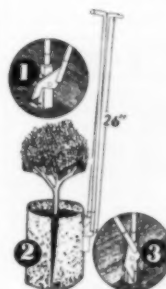
Falling into both categories is its weather, which even in December, January and February is customarily mild and pleasant, with only occasional, sudden, short intervals of cold, referred to as "northers," when the temperature drops from 60 or 70 degrees to 40 or 30 or lower. These cold spells usually last under a week. Even when the temperature falls below freezing for a day or two and

numerous plants are killed down to the ground, the ground itself does not freeze and the plants make a quick recovery, rapid growth occurring when pleasant weather returns.

This, however, is not the whole picture. Every 25 years or so a severe killing freeze occurs which destroys citrus groves and kills hibiscus and innumerable other plants generally considered hardy to the area. In 1950 such a severe cold spell occurred. The temperature fell to near 20 degrees, and the ground froze for over a week. When the mild weather did return, it did not come gradually; rather, extremely hot weather came immediately, wreaking almost as much damage as the intense cold.

For Tropical Nurseries, the 1950 freeze was a disaster. Almost the entire stock, including everything in containers—\$40,000 worth—was destroyed. It was a catastrophic loss, but the nursery's owners were philosophic about it, as they felt that such a winter would not occur again for another 25 years or more. That had been the pattern in the past. Optimistically, the firm built up a new stock of plants and resumed normal operations. Then, in 1951, the next year, another killing freeze once again wiped out the firm's huge stock of plants. The nursery is still

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not entirely over the effects of these two disastrous winters.

Other problems arise from local conditions: Both soil and water in the area are alkaline, a condition which presents an obstacle to planting acid-loving plants such as azaleas, camellias and hydrangeas. Tropical Nurseries apply black acid peat to increase acidity, a method the firm's nurserymen consider "close to nature."

Landscaping of homes on the bay front presents a special difficulty, as many plants cannot take the salt spray. Among those which the nursery has found best for use on the bay front are the following: *Pittosporum*, *Carissa grandiflora* and *Elaeagnus simoni* fruitlandi. Some oleanders are usable.

The firm's nurserymen frequently wonder about the last two plants—why is it that these desert plants, which thrive customarily in dry, arid conditions, are able to withstand the dampness and salt spray of the waterfront? It does not seem possible. But a few Spanish bayonets and maguays were noticed by Tropical's nurserymen on flats near the water—old plants which had taken the salt spray for years with no ill effects—and the landscape designers of the firm copied nature and began to use them for bay front plantings.

### Hibiscus Does Well

Hibiscus also does fairly well on the bay front if rightly located. Planted where the wind can blow through it, hibiscus will not live; but, if located against a house, where wind from the bay can blow on it, but not through it, hibiscus will grow splendidly and bloom well.

As elsewhere, problems of culture and climate, plants and personalities must be met daily.

Perhaps it is significant that when Mr. Seawell and Mr. Austin and their superintendent, Mr. Barton, say good night to the dozen or so employees and leave for the night, they do not stop being plantsmen. Mr. Austin's hobby is orchids, which he grows in a greenhouse at his home. Mr. Seawell and Mr. Barton express their interest in growing things in the landscaping of their yards and patios and in private collections of interesting or unusual plants. In the lives of all three, vocation and avocation have been united; and, if another plant-lover, Robert Frost, is right in saying that when "the work is play" it is really done most ideally, the continued successful operation of Tropical Nurseries can be regarded as secure.

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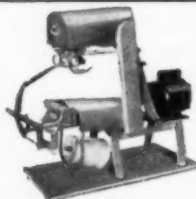
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## OHIO STATE HORTICULTURE

[Continued from page 10]

time to extension work with garden clubs and amateur horticulturists. He is secretary of the Ohio Association of Garden Clubs, one of the outstanding organizations of its kind in the United States.

Dr. D. C. Kiplinger is in charge of the floriculture work in the division and devotes one-half time to teaching duties and one-half time to research as a member of the Ohio agricultural experiment station. He is secretary of the Ohio Florists' Association and is frequently called upon to counsel with florists not only in Ohio but throughout the nation.

Dr. Kennard S. Nelson devotes one-half time to extension work with florists and one-half time on research as a member of the staff of the Ohio agricultural experiment station. He is assistant secretary of the Ohio Florists' Association and secretary of the Ohio State Floriculture Alumni Association.

Kenneth W. Reisch, a native of Connecticut, is an instructor and graduate student in the division, devoting part time to teaching and part time to research. His research concerns problems in both floriculture and ornamental horticulture.

## Work of Graduate Students

The 14 graduate students in the division are engaged in studying various problems in the field of floriculture and ornamental horticulture. Paul Alexander, of Ohio, is working on a problem concerned with the diseases of the poinsettia under a fellowship sponsored by the Ohio Florists' Association. Paul D. Brinkpeter, of Ohio, is studying keeping qualities of cut flowers under the Helena Chamberlain Memorial fellowship. Howard C. Brown, a member of the staff of the California Institute of Technology, is spending a year at Ohio State University doing graduate work on a problem concerning the production of chrysanthemums at cool temperatures. James Caldwell, of Ohio, holds a fellowship sponsored by the Greater Cleveland Flower and Home Show and is working on a problem concerning carnation production.

Franz Eitel, formerly of Germany but now residing in Ohio, is a graduate assistant in the division and doing graduate study on the genus *philadelphus*. Danna Griffin, of Kentucky, holds a fellowship sponsored by the Ohio State Floriculture Alumni Association and is working on a problem concerned with the production of small flowering pot plants. R. Howard Hanchey is en-



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Catalog

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EXCLUSIVE

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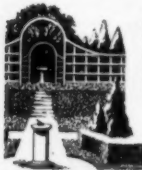
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Please tell me how I can increase my income as a landscaper.

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Established 1925

Manufacturers and Importers of  
DUTCH AND DOMESTIC  
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Distributors of Bird Pots  
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CULTIVATED Native PEAT

Makes Topsoil Out of Subsoil  
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gaged in off-campus research on the African violet as a member of the staff of the department of horticulture at Louisiana State University. Robert Hanzel, of Ohio, is engaged in graduate study of carnation production. Chiko Haramaki, of California, is doing graduate work on rose production under a fellowship sponsored by Roses, Inc.

Ray A. Keen is on a year's leave of absence from the department of horticulture, Kansas State College, and is completing his Ph.D. study of the genus *taxus* and is an assistant in the division. Richard S. Lindstrom is doing off-campus research on initiation of flower buds in the rose, as a member of the staff of the department of horticulture at Michigan State College. Henry Orr, a member of the staff of the department of horticulture, Alabama Polytechnic Institute, is completing a year's study on problems concerned with the production of azaleas under a fellowship sponsored by the Ohio Florists' Association. Harding Newsome, of Texas, is engaged in graduate study in the field of ornamental horticulture, particularly in plant propagation. John A. Strate, of Ohio, is engaged in graduate study concerning various phases of the production and marketing of nursery stock under a fellowship sponsored by the Ohio Nurserymen's Association.

Undergraduates in the division of floriculture and ornamental horticulture number over 100 students, and freshmen come from Maine to California. Approximately 50 per cent of all out-of-state students in the college of agriculture are majoring in some phase of horticulture.

## SOUTHWELL IN CUSTODY OF POSTAL AUTHORITIES

John T. Southwell, head of the Garden Guild of America, was taken into custody December 1 by St. Louis postal authorities and charged with operating a scheme to defraud.

The post office will ask the grand jury to indict Mr. Southwell because of complaints that it has received claiming that the Garden Guild failed to fill orders for its "blue rose" and "8-foot living rose fence," and the products advertised failed to live up to the claims made for them.

JOHN W. KELLY, Kelly Bros. Nurseries, Inc., Dansville, N. Y., recently received community recognition for his leadership in community affairs when he was elected president of the board of directors of the Dansville Memorial hospital.



# Spray with Standard

**TO PROTECT AND IMPROVE TREES, SHRUBS AND ORNAMENTALS, GREENHOUSE AND GARDEN PLANTS, LAWNS!**

**STANDARD Elm Spray** — Destroys the insect carriers of elm phloem necrosis and Dutch elm disease. Protects healthy trees from infection. Also valuable for control of many defoliating insects and scale crawlers.

**STANDARD Dormant Spray Oil No. 1** (formerly DENDROL) — Effective control of scale insects. Destroys the over-wintering forms of these pests, eliminating scale build-up. Mixes instantly with water.

**STANDARD Brush Killer** — Effective against oak, hickory, elm, osage orange, brambles, poison ivy, poison oak. Can be used in summer or winter.

**STANDARD 25% DDT Concentrate** — For out-of-doors control of flies and mosquitoes. Also kills tussock moths, canker-worms, webworms.

**STANDARD Crabgrass Spray** — Controls existing crabgrass growth, prevents seeding. Will not harm grasses.

**STANDARD 2,4-D Weed Killer No. 2** — Controls dandelions, plantains, other broad-leaf weeds. An amine concentrate containing four pounds of 2,4-D per gallon.

**STANDARD Plant Spray** (formerly Garden Spray) — Efficient killing of many insects including red spiders, aphids, leaf hoppers, mealy bugs, lacewing bugs, and mites. Safe for plants, flowers, shrubs, trees.

**STANDARD Garden Dust** — An insecticide and fungicide. Controls most chewing and sucking insects as well as garden diseases.

**STANDARD Summer Emulsion Concentrate** (formerly VERDOL)

— Use alone for sucking insects such as red spiders, white flies, certain scales; with nicotine for aphids and leaf hoppers; with lead arsenate for leaf-eating caterpillars.

For more information on the above products as they pertain to your particular pest control problem, write:

**STANDARD OIL COMPANY (Indiana)**  
910 South Michigan Avenue, Chicago 80, Illinois



## MICHIGAN CONFERENCE

[Continued from page 9]

learn the names of the attractive plants.

Efficiency is not an expense; it is economy—this was the keynote of a talk given by Ernest Durrant, landscape nurseryman of Grand Rapids. Mr. Durrant demonstrated a method of cost accounting for landscape nurserymen by a series of slides taken from his records. He emphasized that a nurseryman or landscape contractor must know his costs if he is to receive a fair profit. He said this can only be done by keeping an accurate record of all costs and applying the knowledge gained to determine a fair price for the sale of merchandise or skills.

Mr. Durrant demonstrated how a landscape nurseryman might set up a simple method of cost accounting that would aid him in effectively establishing his prices. In answer to questions relative to time and costs involved in maintaining such a system, he stated that the recording of the data is done as the work progresses from day to day and that the analysis of the data is done during the slack season.

He cautioned against lowering prices during the off-season, the practice in some areas. He pointed

out that overhead costs must be met during this season as well as during the rush season and that one should receive a fair profit for skills performed whether the job is done in spring or winter.

## Trends in Arboriculture

Dr. Paul Tilford, executive secretary of the National Arborist Association, addressed the group on "Present Trends in Arboriculture." He reviewed the early history of arboriculture in America and contrasted it with present-day trends. He stated that in the past a few companies performed most of the work, whereas today there are many small, local companies which are equipped to do a complete job including spraying, pruning, cabling and bracing, tree planting and removal, cavity work, fertilization, aeration and woodland improvement. He indicated that many companies also provide a complete landscaping service, nursery operation and utility line clearing as part of their services.

Dr. Tilford observed that most of the arborists are well trained and render a good service, but that there are some inferior, unscrupulous operators in the business. He cautioned that the industry should strive for

*In our January issue, marking the first one of the combined FLOWER GROWER and HOME GARDEN Magazine, you will be interested in a feature article telling home gardening families the important role the American Association of Nurserymen plays in their lives and the vital "Plant America" program.*

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**The Home Garden Magazine**  
Founded 1914

*Don't buy new pots—Get a*

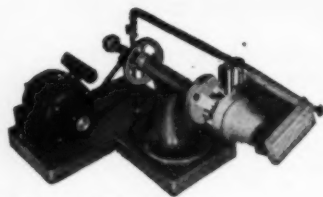
## PRESTO FLOWER POT WASHER

**MAKES OLD POTS GOOD AS NEW  
CLEANS OUT ALL DIRT AND  
DEBRIS IN ONE EASY OPERATION**

Presto is used by Nurseries such as:  
Basset's Greenhouse, Minocqua, Wis.  
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Hopkins Nursery, Bothell, Wash.  
Kliskatom Farm Nursery, Madisonville, La.  
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Ontario Department of Agriculture  
Shell Oil Corporation

—by Leading Colleges  
California Institute of Technology  
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No need to let that stack of dirty pots grow—get a PRESTO. It digs dirt, roots and debris from inside and out of dirty pots. The improved PRESTO has leakproof ball bearings, automatic alignment of brushes and valve-regulated water supply.  
**SAVE TIME—SAVE MONEY—WITH A PRESTO**  
Write for circular and price list.

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306 Russell Rd., Dept. A • DAY VILLAGE, O.

self-improvement by supporting research projects at the various state colleges, which will in turn aid them in providing better service to the public.

### Photographic Tour

One of the last highlights of the program was a tour conducted by Ed Morris, landscape architect, of the Grand Rapids park department, by means of slides. Mr. Morris showed a set of 100 slides of well-known arboretums, parks, private estates and schools, which he had taken on a trip to the east. The pictures were superb, and Mr. Morris gave them added interest by excellently delivered narration.

A portion of the meeting was devoted to a series of workshops in which the conferees broke up into small groups to discuss such topics as small home planting, selling and customer relations, construction problems, equipment, estimating and bidding. Another period was devoted to questioning the experts.

One excellent bit of advice was given to young owners of nurseries or landscape companies by Louis Flannery, of Birmingham, who recommended that all operators carry insurance on their men, equipment and stock, as a company can easily be forced out of business as the result of one serious accident not covered by insurance.

### MICHIGAN GROUP MEETS

The annual business meeting of the Michigan Landscape Conference was held December 11, at Kellogg Center, East Lansing, Mich., during the third annual landscape gardeners' conference.

The meeting was called to order by the vice-president, Ernest Durrant, in the absence of the president, John Stark. The minutes of the 1952 December meeting and the August board of governors' meeting were read and approved. The treasurer's

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Usually applied at rate of ¼ to 1 oz. per 100 sq. ft., or as a spray at 1 to 4 lbs. per 100 gals. of water.

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Better Quality—Lower Prices

Prompt Service

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Shipping tags, color broadsides, catalogs, price lists, order blanks, order books, stock records, gummed labels, blotters, salesbooks, distinctive stationery.

Letterpress and offset printing. Write for free samples and prices.

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for Park Trees, Display Gardens, Field use or Greenhouse Pots or Benches. Proven by thousands of users and every one a booster! You'll like them, too. They will stand for years at one marking, or may be changed any number of times for various markings. Send for catalog and prices of the complete PERFECTION LINE.

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### GREENHOUSE AND NURSERY SUPPLIES

**AMERICAN FLORIST SUPPLY CO.**

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CHICAGO 7, ILL.

report, showing balance of \$143.87, was accepted.

The first order of business was election of officers. The following slate of nominees was presented by Louis Flannery for the nominating committee, and unanimously accepted: President, Ernest Durrant, Grand Rapids; vice-president, Ted Lactz, Bay City; secretary, Jane L. Smith, Lansing, and directors, Richard Somalski, Essexville; Robert Asdell, Royal Oak, and M. R. Peckosh, Richland.

Harold Hicks advised the group that it was the opinion of the board of directors that the conference should discontinue publication of its bulletin as of the first of the year and sponsor the Michigan State Nursery Notes. After considerable discussion the motion was made by Jack Crinion and supported by Frank Szilvagy that the conference sponsor the Michigan State Nursery Notes for a period of one year and report at the next business meeting of the Michigan Landscape Conference. The motion was carried.

The dates of the summer meeting of the conference were set for August 10 and 11, 1954. The next winter meeting will be held January 6 and 7, 1955.

A bulletin committee was appointed by the president, to work with Dr. Watson on the Michigan State Nursery Notes and also to determine whether or not the arrangement was satisfactory. John Emerson was appointed chairman, with Lester Begick and Harold Hicks as his committee.

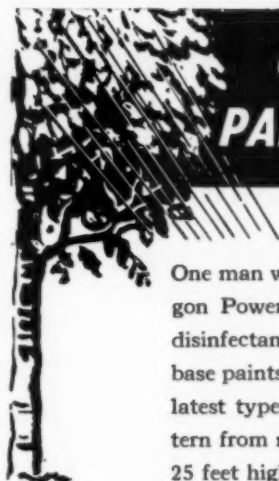
At this time Dr. Watson asked that the landscape industry encourage young men to attend the short course offered by the ornamental horticulture department of Michigan State College.

The meeting adjourned after reading of correspondence to the group.  
Jane L. Smith

#### SARVER IMPROVES NURSERY

B. E. Williams and J. Jones, owners of the Sarver Landscape Nursery, Dallas, Tex., have recently added two 50,000 B.T.U. heating units for two greenhouses and built a large soil shed.

The shed is utilized to store potting soil during winter months. Sandy loam, black loam, fertilizer and peat moss are mixed and placed through a soil shredder before storing. New soil is replaced in the shed when stored soil is withdrawn. The nurserymen have found this method an important timesaver.



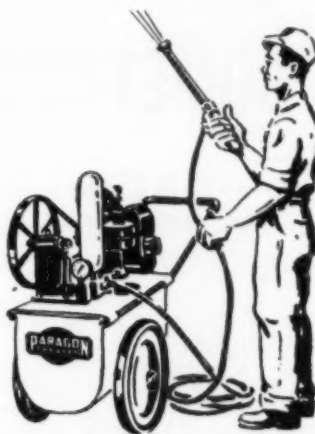
## easier with new PARAGON Power Sprayer

One man with this compact (16½" wide) 12-gal. Paragon Power Sprayer can *effectively* spray insecticides, disinfectants, weed killers, herbicides, whitewash, water-base paints, silicone-type waterproofing solutions. With latest type spray gun, simple twist changes spray pattern from mist for wide coverage to small stream up to 25 feet high to reach high limbs, barn rafters or distant rows. Comes with 15 ft. hose.

**Pump:** brass cylinder, piston-type, rugged, never submerged. No pulsation! **Agitator:** double-bladed . . . keeps solution mixed . . . cleans strainer at every pump stroke. **Tank:** rust-protected . . . easy to fill and clean. **Power:** ¾ HP 4-cycle gasoline engine, (or electric motor).

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Self-Supporting—No Stakes or Posts!  
Easy to set up and just as easy to remove.  
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**FERTO-POST** For early crops. Made of cow manure. pH 5.5 to 7. Plant eats pot. 2-in., \$18 per 1000; 2½-in., \$20 per 1000; 3-in., \$23 per 1000. Discount on quantity orders. Allen's 1MT. BONE MEAL 2.40% N.—20% Phos. Acid. (not steamed bone), 100 lb., \$4; ton, \$40; C. L., \$50. Ask for complete list.  
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— the ULTIMATE in MOISTURE PROTECTION  
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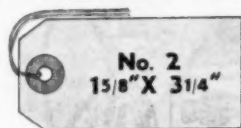
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	Manila	Colored
1,000	\$2.90	\$3.60
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5,000	2.20	2.90
10,000	1.90	2.60

Colors: Yellow, Red, Blue, Green, Orange and White. Colors may be combined for quantity price. Minimum 1000 each color.

Wired Tags, add \$1.90 per 1000  
Metal Eyeleted Tags, add 45c per 1000  
Prices 10% higher west of Rocky Mts.  
Net 30 Days • F.O.B. Grand Rapids, Mich.  
Free delivery for check with order.

Write for price list and samples of nursery tags

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**BURLAP**

PRICES & SAMPLES  
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- Handy rotary tiller and tractor.
- Tills and mulches up to 10" deep in every kind of soil.
- Weeds up close to plants.
- Tines are fully guaranteed.

Ask for Free Demonstration

See sturdy Merry Tiller work the soil—do other jobs. Due to gripper leverage plus light weight, it out performs heavier machines. 2 h. p. motor. Dealer inquiries are invited.

Get Free Folder! Write:

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ALSO INQUIRE ABOUT  
THE NEW ROTARY SNOW PLOW—  
*Merry Sno-Fly*



## Learn ORNAMENTAL HORTICULTURE

A thorough, constructive, some training for employment or advancement in Nursery Operations, Park Supervision or Maintenance. Landscape Designing or Landscape Gardening. Send for Free bulletin.

**NATIONAL LANDSCAPE INSTITUTE**  
Dept. N-10, 310 So. Robertson, Los Angeles 48, Calif.

## TREE DIAGNOSIS

[Continued from page 16]

- E. Underground utility lines
- F. Watering practices during drought periods
- G. Unusual weather conditions in past several years
- H. Transplanting record
- I. Introduction into the soil of salt, oil or other toxic substances
- III. Amount of dead wood in crown
- IV. Environmental conditions
  - A. Climatic hardness
  - B. Shade—sunlight
  - C. Pavement or other impervious surfacing materials over root spread
  - D. Reflected heat from walls
  - E. Exposure to wind; direct or reflected sunlight
  - F. Atmospheric impurities
  - G. Location of tree with relation to underground utility lines
  - H. Soil: Fills, cuts, wells around trunk; moisture content
  - I. Foreign objects touching trunk or crown: Utility service wires, guy wires or cables, etc.
- Soil.
  - I. Moisture content
  - II. Soil type: Sand, loam, clay
  - III. Dept of topsoil; natural or fill
  - IV. Soil texture
    - V. Organic content
  - VI. Soil analyses: pH reading, nutrient elements
  - VII. Toxic substances
  - VIII. Parasitic fungi
  - IX. Root-feeding insects

### Roots

- I. Girdling roots
- II. General condition of health
- III. Broken or cut
- IV. Disease injury
- V. Insect injury
- VI. Rodent injury
- VII. Exposure due to erosion, trampling or other causes
- VIII. Restrictions on natural spread
- IX. Distance below soil surface at which feeding roots are found

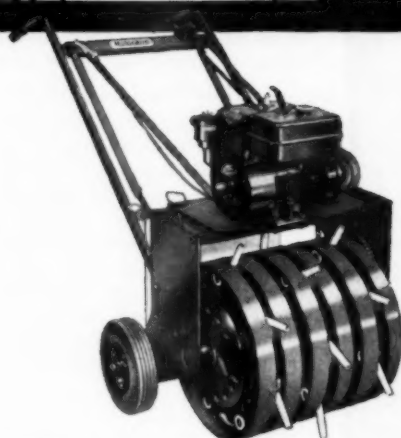
### TRUNK AND BRANCHES

- I. Nonparasitic injuries: Constrictions, abrasions, bird or animal injury, cold weather injury, split crotches, sunscald
- II. Symptoms of disease organisms: Fungi, bacteria, viruses, cankers, fluxing, fruiting bodies, decaying areas, streaking in cambial region or sapwood, discoloration and perhaps odor of inner bark, witches' broom (caused also by insects), die-back of branch tips
- III. Insects or evidence of insects: Holes of varying size in the bark, grains of fresh sawdust in bark crevices or at base of trunk, tunnels or egg galleries in the cambial region, egg masses or insects in the bark crevices, abnormal swellings in branches or trunk, sooty appearance of bark, adults of borers, scale or defoliating insects, abnormal dropping of small twigs, drying of young branches, galls
- VI. Determination of growth rate: Terminal twig growth, callus growth at wounds, spacing of annual rings on core taken by means of increment borer
- V. Parasitic or semiparasitic plants: Mistletoe, dodder, vines

### FOLIAGE

- I. General appearance: Color, size,

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For the first time, we are offering a dependable power roller that can be used on lawns, tennis courts, running tracks, baseball diamonds, football fields, playgrounds and blacktop patching and is quickly and easily interchangeable into a Motoraire for coring and aerating turf.

For rolling or aerating, this one machine can be used many times during the year. A natural for landscape men and institutions.



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TODAY

### SOILAIRE INDUSTRIES

MINNEAPOLIS 3, MINN. • Used by over 1000 Institutions

shape and abundance in comparison with normal

- II. Insects or indications of insects: Defoliation, leaf miner injury, scales in the crawler stage, larvae or adults, leaves webbed together, curled leaf edges, leaf spotting, galls
- III. Symptoms of disease organisms: Cobweblike growth, discolored spots large or small, wilting, lesions, fruiting bodies particularly along midrib
- IV. Symptoms of nonparasitic ailments: Yellowing or browning of tissue between veins or along leaf margins, yellow-green color of foliage over entire tree, malformation of leaves, sparsity of foliage, premature leaf drop

#### WALTER C. BLACK

[Continued from page 17]

Sons & Co., under which the nursery operated for many years, even though Elias left the business and Joseph Black died.

The firm had at first operated exclusively as a wholesale nursery. Under Walter Black's management, retail sales of ornamentals increased and the business eventually became wholly a cash retail nursery, as it is today.

In 1950, Joseph Black Locke became foreman of the firm, learning the business under Walter Black, and in January, 1951, became a partner.

Among the high points in his career, Mr. Black looks back with pride on his unsurpassed reputation as a speedy budder. On one occasion, he budded 821 trees in an hour. When electricity was developed, he helped make the first electric light in his town and foresaw the usefulness of the new invention. He early gained a reputation as an expert mathematician and occasionally substituted as teacher of the subject at local schools. As a result of this mathematical ability, he became collector-treasurer at Hightstown and was re-elected the past year for another 4-year term. President Eisenhower had two more votes than he did, Mr. Black likes to relate, which made the past election the first one in which he did not have the greatest number of votes among those on the ballot in the town.

#### Active in Sports

In sports, too, Mr. Black has been active. Pocket billiards, roque, baseball, football and umpiring have occupied his attention at various times in his life. He now plays golf in the low 80's.

Another enduring interest is his membership in the Freemasons, of which he has been a past master and historian for 51 years.

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RAIL and HURDLE  
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**Large Stocks . . .  
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Hand Split Chestnut Rails.  
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**RUSTIC TABLES** Write  
6 and 8 ft. long, frame work— for  
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**ALL TYPES**—From large Estates to  
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**FOR LONG LIFE**—Entire Fence—  
(both posts and rails) treated with  
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## AMERICAN NURSERYMAN

### PLANT PROPAGATORS MEET

[Continued from page 8]

went on to describe a method of grafting junipers on cuttings. Dr. Snyder said that he found 65 references on juniper propagation, with 20 having practical application.

#### Hold Panel on Junipers

Pieter G. Zorg, Fairview Evergreen Nurseries, Fairview, Pa., told of methods of propagating junipers by cuttings practiced in Holland and Germany, and he described the method he used in this country. Cuttings six to seven inches long were advised. Coldframes should be used for cuttings taken in August and September, and a greenhouse should be used for cuttings taken in November.

Hormodin powders were recommended, and Mr. Zorg advised watering cuttings carefully, not overwatering or running dry. In closing, the commonly rooted varieties of junipers were listed along with the more difficult varieties.

Jack B. Hill, of D. Hill Nursery Co., Dundee, Ill., closed the discussion of juniper propagation with a talk on grafting. *Juniperus virginiana* and *J. chinensis* are commonly used as understocks, he said, and the former are considered better. Stem diameter and vigor should be considered in selecting understocks before potting.

Scions should be taken from healthy plants, and Mr. Hill went on to tell how scions could be stored as long as 20 days before grafting. Veneer or flap graft is used with cambiums carefully matched and the grafts tied with rubber bands or string. Mr. Hill then described how to handle the grafts in an open bench, in a closed case and how his company handles the grafts for shipping.

#### Magnolia Propagation Discussed

The moderator for the session on magnolia propagation was Prof. Robert P. Meahl, Pennsylvania State College. He first reviewed available literature on the subject. There was, he said, little scientific literature on magnolia propagation, and that little was on propagation by seeds and cuttings, with no references on grafting. There were, however, reports on known practices in magnolia propagation, and Prof. Meahl, in his talk, covered the general methods, old and new.

Magnolia propagation by seeds was discussed by Fred Galle, Ida Cason Gardens, Chipley, Ga. Fresh clean seeds were recommended for stratification or direct planting in outdoor



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
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beds. After stratifying, seeds can be handled in flats in a greenhouse for early germination and then transplanted into outdoor beds or frames. Most magnolia seedlings are grown for understocks in grafting and, with proper handling, are at grafting size in one year.

Tom Dodd, Jr., Tom Dodd Nursery, Semmes, Ala., sent a paper on magnolias by cuttings, which was read by Prof. Ray Keen, Kansas State College. Approximately 2½ million magnolia cuttings are grown in Mobile county, Ala., each year.

Mr. Dodd recommended fertilizing magnolia stock plants in order to get soft cutting wood. The cuttings are taken soft, and the terminal bud is removed. The length of the cutting is from three to 10 inches, depending upon the variety. The cuttings are usually placed in sand in a closed greenhouse and syringed several times a day.

Magnolia propagation from grafts was discussed by Charles Hess, Hess' Nurseries, Mountain View, N. J. He advised *Magnolia kobus* as the understock for oriental magnolias, and *M. accuminata* was suggested for American species. The understock is potted in the fall in preparation for grafting in December.

Side grafts are used, and the plants

are placed in closed cases. After several weeks, the cases are opened gradually, and in six weeks the plants are hardened off.

Open bench grafting was discussed by members from the floor as a desirable way to handle the grafted plants. Mr. Hess was asked, "Why graft magnolias when they can be grown from cuttings?" He replied, "Some varieties graft better than cut; besides, I go fishing in the summer."

During the daily sessions, members had the opportunity to write out questions for the propagators' question box. Some of the topics discussed were taxus cuttings, blue spruce cuttings, use of sawdust, budding versus grafting, understocks for various plants and many others.

Slides on propagation were shown by Mr. Wells. Charley Hess spiced the evening program with additional color slides—on subjects other than plant propagation.

### Chadwick Covers Hardwood

Dr. L. C. Chadwick, Ohio State University, was the moderator for the Saturday morning round table on deciduous shrubs from hardwood cuttings. A discussion included both internal and external factors affecting the rooting of hardwood cuttings. Under internal factors, Dr. Chad-



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wick covered anatomy, physiology and plant hormones.

Wound healing is accomplished in three steps, he said—a suberin layer comes first, then internal cork and then callus. Callus is not a protective layer, nor is it necessary for rooting, according to Dr. Chadwick. Conditions favorable for rooting, however, are also favorable for callus formation. Carbohydrates, or stored food, are allied to rooting, for increasing carbohydrates in a stem aids rooting.

Water was listed as one of the most important external factors, along with oxygen and temperature. Two weeks of storage temperature at 60 degrees Fahrenheit alternated with two weeks of temperature at 40 degrees F. is one of the best combinations for storing early cuttings. Position of the basal cut has less effect on hardwood than softwood cuttings. In closing, Dr. Chadwick said the literature showed growth regulators have little benefit on dormant cuttings.

Louis Vanderbrook, Vanderbrook Nurseries, Manchester, Conn., discussed his method of handling hardwood cuttings of deciduous shrubs commercially. Healthy cuttings from stock block plants are gathered in the fall, cut into 8-inch lengths, stored in boxes for the winter and lined out in the spring.

In a greenhouse, cuttings three and one-half inches long are placed in sand media at 55 degrees F. The rooted cuttings are sprayed in the spring with Wilt-pruf before they are lifted and lined out.

Mr. Vanderbrook found hormones had no effect on hardwood cuttings placed in the greenhouse, but he did find that sulphur dust increased rooting. In closing, a list of plant varieties he had rooted were given.

President Wells handled the business meeting after the morning program. The report of the nominating committee was read, and the secretary-treasurer's report was approved and turned over to an auditing committee. The fourth and fifth annual meetings will be held at Cleveland, with the time and place to be announced later.

### European Speaker Proposed

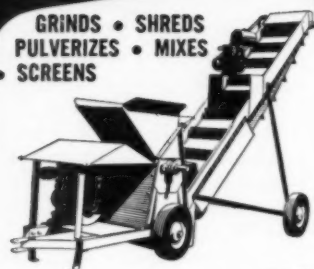
Plans to bring an outstanding European speaker to the fifth annual meeting were proposed, with a committee appointed for this project that included L. C. Chadwick, John Siebenthaler and Richard Fillmore.

A field trial and testing committee was approved after discussion by the members and consists of John Mahlstede, Richard Fillmore, William Snyder, James S. Wells and Roger

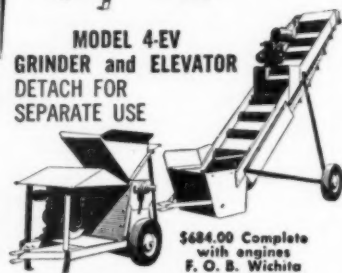
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Swingle. The printed proceedings of the meeting will be made available to members in April of 1954.

A cablegram to be sent to Steve O'Rourke, one of the society's original members, now in Ecuador, was suggested and approved. The business meeting closed with a rising vote of thanks to Dr. William Snyder, program chairman, for handling this year's fine meeting.

Moderator for the round table on softwood cuttings of deciduous shrubs was Dr. John Mahlstedt, Iowa State College, who discussed the principles of rooting softwood cuttings, covering both internal and external factors.

Carbohydrates are not important in every softwood cutting but are favorable in the rooting of midsummer cuttings. Basal cuts one-half inch below the node were advised for most softwood cuttings. Other internal factors reported on were plant auxins and juvenility. External factors discussed were light, temperature, oxygen, media and pH of the media.

Dr. Mahlstedt also discussed constant mist, humidity systems and cultural practices. After his discussion, color slides were shown of the mist system for rooting at Iowa State College, effects of the amount of foliage on rooting and effects of pH of the media on rooting.

#### Chinese Method Described

Leslie Hancock, Woodland Nursery, Cooksville, Ont., Canada, showed color slides on his method of rooting shrubs by softwood cuttings. Mr. Hancock showed a sketch of and described a Chinese rooting method which he observed during a 4-year stay in China. He related his experiences in trying to duplicate the Chinese procedure in Canada. The present method consists of prepared beds covered with burlap, using sandy loam soil as a rooting media.

Mr. Hancock had color slides to show his layout, construction of beds and all cultural treatment. The advantages he stated were economy and high degree of rooting.

The annual banquet closed with a colorful talk and slides on some recent developments in horticultural research, by Dr. S. L. Emsweller, head of the division of ornamental plant crops and diseases, U.S.D.A., Beltsville, Md. Dr. Emsweller's talk showed many of the tools used in modern research and the progress being made with various horticultural crops.

In closing, Dr. Emsweller asked Ed Scanlon, the secretary, for the number of members in the society. Ed

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said there were 142, whereupon Dr. Emsweller asked if he could be accepted, for he would like to make it 143.

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C. T. Harding, of the Virginia-Carolina Chemical Corp., listed several disadvantages from the standpoint of the fertilizer industry, which appear to outweigh the advantages. The time required for proper mixing hinders the service the industry is now giving consumers, he stated, and a multiplicity of grades of fertilizers would present storage problems if pesticides were mixed.

A discussion followed which pointed to the difficulty of testing a relatively small quantity of the insecticide with a large volume of fertilizer. No satisfactory ways have been devised to handle the problems of labeling and testing pesticide-fertilizer mixtures and to insure a uniform product that will be satisfactory both to the manufacturer and farmer.

It was also noted that most of the insecticide-fertilizer combinations devised so far have been for control of soil insects and that insecticide manufacturers must be in a position to assure fertilizer manufacturers and consumers that the insecticides will not result in damage to plants or leave toxic residues in the soil.

JOHN SEIFERT, 600 Hammonds lane, Brooklyn, Md., recently sold his nursery and greenhouse to his daughter, Helen, who will operate the business under the name of Seifert's Florist. Mr. Seifert plans to aid his daughter in management of the business.

D. D. BOWMAN has sold the Rose Hill Nursery, Plainview, Tex., to Mack Fuqua, of Lubbock, Tex. Mr. Bowman will retire from the nursery business and operate his farm, near Plainview.

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